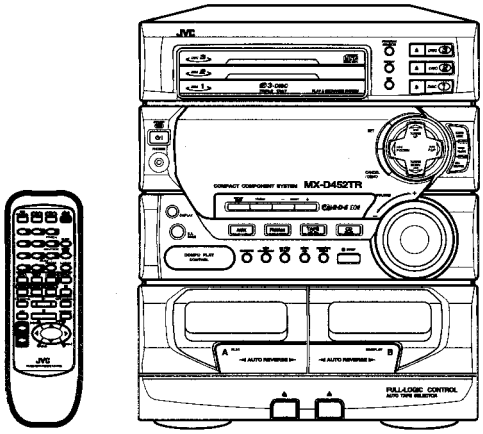
CA-D432TR
CA-D452TR

JVC

# SERVICE MANUAL

## COMPACT COMPONENT SYSTEM

# CA-D432TR/SP-D432 B/E/EN
# CA-D452TR/SP-D452 B/E/EN/EE



**Area Suffix**

E ..... Continental Europe
EN ..... Northern Europe
B ..... U.K.
EE ..... Eastern Europe

COMPACT disc DIGITAL AUDIO

R·D·S EON

## Contents


Safety Precautions ..... 1-2
Instruction Book ..... 1-5~26
Description of Major ICs ..... 2-1
Internal Connection of FL Display ..... 2-12
Disassembly Procedures ..... 2-13
Flow of Functional Operation Until TOC Read ..... 2-26
Maintenance of Laser Pickup ..... 2-27
Replacement of Laser Pickup ..... 2-27
Adjustment Procedures ..... 2-28
Block Diagrams ..... 2-32
Schematic Diagrams ..... 2-33
Printed Circuit Boards ..... 2-42~48
Parts List ..... 3-1~25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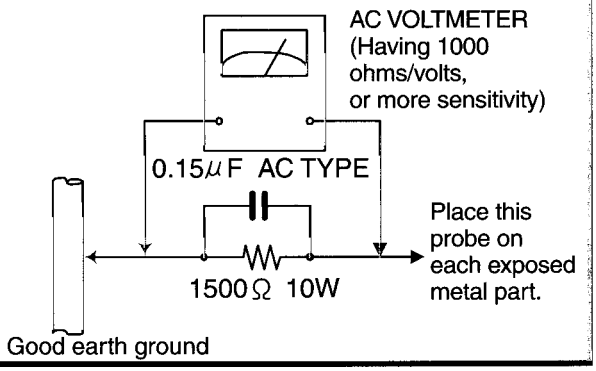
No.20688
May. 1998

## Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (!) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage currnet check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet , particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.)
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now reverse the plug in the AC outlet and repeat each measurement voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).




## Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

⚠*CAUTION* **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

## *Safety Precautions* (U.K only)

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits.
2. Any unauthorised design alterations or additions will void the manufacturer's guarantee ; furthermore the manufacturer cannot accept responsibility for personal injury or property damage resulting therefrom.
3. Essential safety critical components are identified by ( ⚠ ) on the Parts List and by shading on the schematics, and must never be replaced by parts other than those listed in the manual. Please note however that many electrical and mechanical parts in the product have special safety related characteristics. These characteristics are often not evident from visual inspection. Parts other than specified by the manufacturer may not have the same safety characteristics as the recommended replacement parts shown in the Parts List of the Service Manual and may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

## *Warning*

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2. This equipment has been designed and manufactured to meet international safety standards.
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5. It is essential that safety critical components are replaced by approved parts.
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⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

# Important for Laser Products

**1.CLASS 1 LASER PRODUCT**

**2.DANGER :** Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

**3.CAUTION :** There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

**4.CAUTION :** The compact disc player uses invisible laserradiation and is equipped with safety switches whichprevent emission of radiation when the drawer is open and the safety interlocks have failed or are de feated. It is dangerous to defeat the safety switches.

**5.CAUTION :** If safety switches malfunction, the laser is able to function.

**6.CAUTION :** Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

---

**VARNING :** Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen.

**VARO :** Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle.Älä katso säteeseen.

**ADVARSEL :** Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

**ADVARSEL :** Usynlig laserstråling ved åpning,når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.

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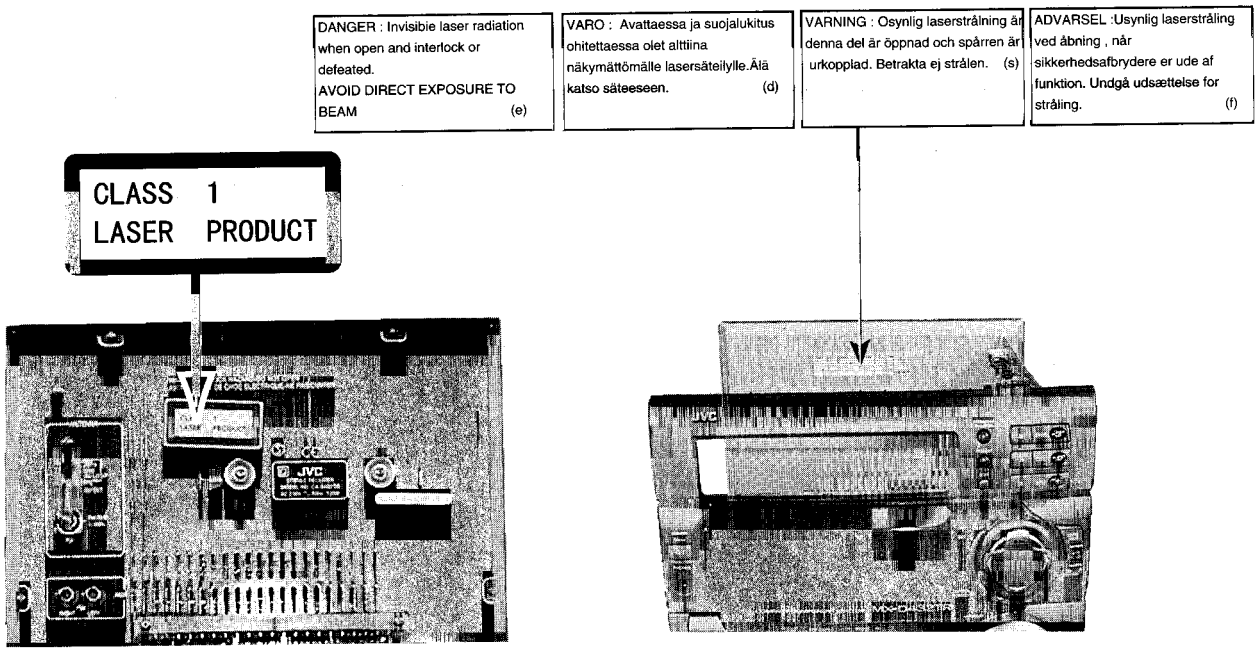
## REPRODUCTION AND POSITION OF LABELS

### WARNING LABEL


DANGER : Invisible laser radiation when open and interlock or defeated.
AVOID DIRECT EXPOSURE TO BEAM (e)
VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle.Älä katso säteeseen. (d)
VARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen. (s)
ADVARSEL :Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. (f)
CLASS 1
LASER PRODUCT

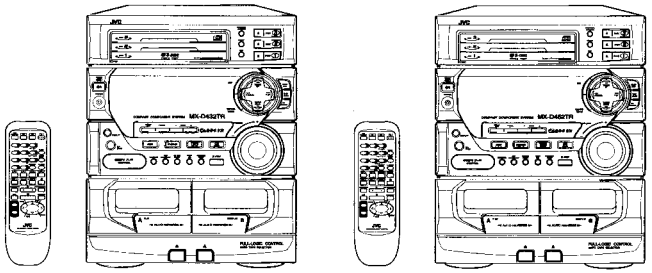
JVC

# COMPACT COMPONENT SYSTEM

**KOMPAKT-KOMPONENTEN-SYSTEM**
**SYSTEME DE COMPOSANTS COMPACT**
**KOMPACTO KOMPONENTEN-SYSTEEM**
**SISTEMAS DE COMPONENTES COMPACTOS**
**IMPIANTO A COMPONENTI COMPATTO**

# CA-D432TR/CA-D452TR

COMPACT disc DIGITAL AUDIO



**CA-D432TR**

R·D·S EON

**CA-D452TR**

R·D·S EON

***INSTRUCTIONS***
***BEDIENUNGSANLEITUNG***
***MANUEL D'INSTRUCTIONS***
***GEBRUIKSAANWIJZING***
***MANUAL DE INSTRUCCIONES***
***ISTRUZIONI***

**For Customer Use:**
Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

GVT0003-006A
[E]

1-5

## Warnings, Cautions and Others / Warnung, Achtung und sonstige Hinweise /Mises en garde, précautions et indications diverses /Waarschuwingen, voorzorgen en andere mededelingen/Avisos, precauciones y otras notas / Avvertenze e precauzioni da osservare

**IMPORTANT for the U.K.**

**DO NOT** cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

**BE SURE** to replace the fuse only with an identical approved type, as originally fitted.

If nontheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below:

**IMPORTANT:**

**DO NOT** make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:
Blue : Neutral
Brown : Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

**IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.**

**Per l'Italia:**
"Si dichiara che il questo prodotto di marca JVC è conforme alle prescrizioni del Decreto Ministeriale n.548 del 28/08/95 pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana n.301 del 28/12/95."

**Caution — ⏻/I switch!**
Disconnect the mains plug to shut the power off completely. The ⏻/I switch in any position does not disconnect the mains line. The power can be remote controlled.

**Achtung — ⏻/I-Schalter!**
Den Netzstecker aus der Steckdose ziehen, um die Stromversorgung vollkommen zu unterbrechen. Der Schalter ⏻/I unterbrichet in keiner Stellung die Stromversorgung vollkommen. Die Stromversorgung kann mit der Fernbedienung ein- und ausgeschaltet werden.

**Attention — Commutateur ⏻/I!**
Déconnecter la fiche de secteur pour couper complètement le courant. Le commutateur ⏻/I ne coupe jamais complètement la ligne de secteur, quelle que soit sa position. Le courant peut être télécommandé.

**Voorzichtig — ⏻/I schakelaar!**
Om de stroomtoevoer geheel uit te schakelen, trekt u de stekker uit het stopkontakt. Anders zal er altijd een geringe hoeveelheid stroom naar het apparaat lopen, ongeacht de stand van de ⏻/I schakelaar. U kunt het apparaat ook met de afstandsbediening aan- en uitschakelen.

**Precaución — Interruptor ⏻/I!**
Desconectar el cable de alimentación para desactivar la alimentación totalmente. Cualquier que sea la posición de ajuste del interruptor ⏻/I, la alimentación no es cortada completamente. La alimentación puede ser controlada remotamente.

**Attenzione — L'interruttore ⏻/I!**
Disinserire la spina del cavo di alimentazione dalla presa della rete elettrica per staccare completamente l'alimentazione. L'interruttore ⏻/I in nessuna posizione stacca la linea di alimentazione elettrica principale. È possibile il controllo remoto dell'alimentazione.

**CAUTION**
To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

**ACHTUNG**
Zur Verhinderung von elektrischen Schlägen, Brandgefahr, usw:
1. Keine Schrauben lösen oder Abdeckungen entfernen und das Gehäuse nicht öffnen.
2. Dieses Gerät weder Regen noch Feuchtigkeit aussetzen.

**ATTENTION**
Afin d'éviter tout risque d'électrocution, d'incendie, etc.:
1. Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

**VOORZICHTIG**
Ter vermindering van gevaar voor brand, elektrische schokken, enz.:
1. Verwijder geen schroeven, panelen of de behuizing.
2. Stel het toestel niet bloot aan regen of vocht.

**PRECAUCIÓN**
Para reducir riesgos de choques eléctricos, incendio, etc.:
1. No extraiga los tornillos, los cubiertas ni la caja.
2. No exponga este aparato a la lluvia o a la humedad.

**ATTENZIONE**
Per ridurre il rischio di shock elettrici, incendi, ecc...
1. Non togliete viti, coperchi o la scatola.
2. Non esponete l'apparecchio alla piogggia e all'umidità.

**Caution: Proper Ventilation**
To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:
1 Front:
No obstructions and open spacing.
2 Sides/ Top/ Back:
No obstructions should be placed in the areas shown by the dimensions below.
3 Bottom:
Place on the level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm or more.

**Achtung: Ausreichende Belüftung**
Zur Vermeidung von elektrischen Schlägen, Feuer und sonstigen Schäden sollte das Gerät unter folgenden Bedingungen aufgestellt werden:
1 Vorderseite:
Hindernisfrei und gut zugänglich.
2 Seiten- und Rückwände:
Hindernisfrei in allen gegebenen Abständen (s. Abbildung).
3 Unterseite:
Die Stellfläche muß absolut eben sein. Sorgen Sie für ausreichende Luftzufuhr durch Aufstellung auf einem Stand mit mindestens 10 cm Höhe.

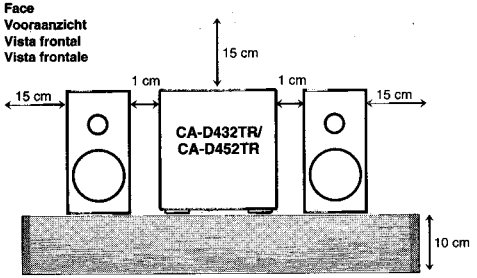
**Attention: Aération correcte**
Pour prévenir tout risque de décharge électrique ou d'incendie et éviter toute détérioration, installez l'appareil de la manière suivante:
1 Avant:
Bien dégagé de tout objet.
2 Côtés/dessus/dessous:
Assurez-vous que rien ne bloque les espaces indiqués sur le schéma ci-dessous.
3 Dessous:
Posez l'appareil sur une surface plane et horizontale. Veillez à ce que sa ventilation correcte puisse se faire en le plaçant sur un support d'au moins dix centimètres de hauteur.

**Voorzichtig: Goede ventilatie vereist**
Om brand, elektrische schokken en beschadiging te voorkomen, moet u het toestel als volgt opstellen:
1 Voorkant:
Geen belemmeringen en voldoende ruimte.
2 Zijkanten/boven-/onderkant:
Geen belemmeringen plaatsen in de hieronder aangegeven zones.
3 Onderkant:
Op vlakke ondergrond plaatsen. Voldoende ventilatieruimte voorzien door het toestel op een onderstel met een hoogte van 10 cm of meer te plaatsen.

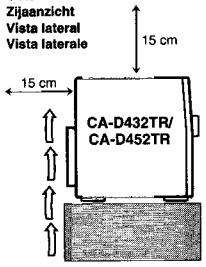
**Precaución: ventilación correcta**
Para evitar el riesgo de descargas eléctricas e incendio y prevenir posibles daños, instale el equipo en un lugar que cumpla los siguientes requisitos:
1 Parte frontal:
Sin obstrucciones, espacio abierto.
2 Lados/parte superior/parte posterior:
No debe haber ninguna obstrucción en las áreas mostradas por las dimensiones de la siguiente figura.
3 Parte inferior:
Sitúe el equipo sobre una superficie nivelada. Mantenga un espacio adecuado para permitir el paso del aire y una correcta ventilación, situando el equipo sobre un soporte de 10 o más cm de allura.

**Attenzione: Per una corretta ventilazione**
Per prevenire il rischio di scosse elettriche e di incendio ed evitare possibili danni, collocare le apparecchiature nel modo seguente:
1 Parte anteriore:
Nessun ostacolo e spazio libero.
2 Lati/Parte superiore/Retro:
Lasciare libere le zone indicate dalle dimensioni di seguito.
3 Base:
Collocare su una superficie piana. Consentire un'adeguata ventilazione dell'impianto appoggiandolo su un tavolinetto alto almeno 10 cm.

**Front view**
**Vorderansicht**
**Face**
**Vooraanzicht**
**Vista frontal**
**Vista frontale**




**Side view**
**Seitenansicht**
**Côté**
**Zijaanzicht**
**Vista lateral**
**Vista laterale**






**IMPORTANT FOR LASER PRODUCTS/ WICHTIGER HINWEIS FÜR LASER-PRODUKTE / IMPORTANT POUR LES PRODUITS LASER / BELANGRIJKE INFORMATIE VOOR LASERPRODUKTEN / IMPORTANTE PARA LOS PRODUCTOS LÁSER / IMPORTANTE PER I PRODOTTI LASER**

***REPRODUCTION OF LABELS/ANBRINGUNGSORTE FÜR LASER-PRODUKTE/REPRODUCTION DES ETIQUETTES/VERKLARING VAN DE LABELS/REPRODUCCIÓN DE ETIQUETAS/RIPRODUZIONE DELLE ETICHETTE***

① CLASSIFICATION LABEL, PLACED ON REAR ENCLOSURE
② WARNING LABEL, PLACED INSIDE THE UNIT

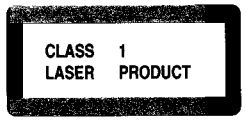
① KLASSIFIKATIONSETIKETTE AN DER RÜCKSEITE
② WARNETIKETTE IM GERÄTEINNEREN

① ETIQUETTE DE CLASSIFICATION, PLACÉE A L'ARRIÈRE DU COFFRET
② ETIQUETTE D'AVERTISSEMENT PLACÉE À L'INTERIEUR DE L'APPAREIL

① KLASSIFIKATIELABEL, OP DE ACHTERZIJDE VAN HET APPARAAT
② WAARSCHUWINGSLABEL, IN HET APPARAAT

① ETIQUETA DE CLASIFICACIÓN, PEGADA EN LA PARTE POSTERIOR DE LA CAJA
② ETIQUETA DE ADVERTENCIA, PEGADA EN EL INTERIOR DE LA UNIDAD

① ETICHETTA DI CLASSIFICAZIONE, SITUATA SUL RIVESTIMENTO POSTERIORE
② ETICHETTA DI AVVERTENZA, SITUATA ALL'INTERNO DELL'APPARECCHIO



DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)
VARNING: Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)
ADVARSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling (d)
VARO: Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)

1. CLASS 1 LASER PRODUCT
2. **DANGER**: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION**: Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.

1. KLAS 1 LASERPRODUKT
2. **GEVAARLIJK**: Onzichtbare laserstraling wanneer open en de beveiliging faalt of uitgeschakeld is. Voorkom het direkt blootstaan aan de straal.
3. **VOORZICHTIG**: De bovenkap niet openen. Binnenin het toestel bevinden zich geen door de gebruiker te repareren onderdelen: laat onderhoud over aan bekwaam vakpersoneel.

1. LASER-PRODUKT DER KLASSE 1
2. **GEFAHR:** Unsichtbare Laserstrahlung bei Öffnung und fehlerhafter oder beschädigter Spre. Direkten Kontakt mit dem Strahl vermeiden!
3. **ACHTUNG:** Das Gehäuse nicht öffnen. Das Gerät enthält keinerlei Teile, die vom Benutzer gewartet werden können. Überlassen Sie Wartungsarbeiten bitte qualifizierten Kundendienst-Fachleuten.

1. PRODUCTO LASER CLASE 1
2. **PELIGRO**: En el interior hay radiación láser invisible. Evite el contacto directo con el haz.
3. **PRECAUCIÓN**: No abra la tapa superior. En el interior de la unidad no existen piezas reparables por el usuario; deje todo servicio técnico en manos de personal calificado.

1. PRODUIT LASER CLASSE 1
2. **ATTENTION:** Radiation laser invisible quand l'appareil est ouvert ou que le verrouillage est en panne ou désactivé. Eviter une exposition directe au rayon.
3. **ATTENTION:** Ne pas ouvrir le couvercle du dessus. Il n'y a aucune pièce utilisable à l'intérieur. Laisser à un personnel qualifié le soin de réparer votre appareil.

1. PRODOTTO LASER CLASSE 1
2. **PERICOLO:** Radiazione laser invisibile quando l'apparecchio è aperto ed il dispositivo di sicurezza è guasto o disattivato. Evitare l'esposizione diretta ai raggi.
3. **ATTENZIONE:** Non aprire il coperchio superiore. Non vi sono parti adoperabili dall'utente all'interno di questo apparecchio; lasciare tutti i controlli a personale qualificato.

Thank you for purchasing the JVC Compact Component System.
We hope it will be a valued addition to your home, giving you years of enjoyment.
Be sure to read this instruction manual carefully before operating your new stereo system.
Here you will find all the information you need to set up and use the system.
For questions that are not be answered in the manual, contact your dealer.

## Features

Here are some of the things that make your System powerful and easy to use.

**Easy operation**

COMPU PLAY

■ The controls and operations have been designed to make them very easy to use, so you can spend your time listening to music.
- With the One Touch Operation feature of JVC's **COMPU PLAY** you can turn on the System and start the radio, the Cassette Deck, or the CD Player with a single touch.

**Great sound**

■ To get such great sound from such a compact package the System has:
- Programmed sound mode includes live surround effects **D. CLUB, HALL,** and **STADIUM**. It also includes S.E.A. (Sound Effect Amplifier) effects **ROCK, POP,** and **CLASSIC**. You can also register up to three customized settings (MANUAL 1 to 3).

R·D·S EON

■ The System is compatible with RDS (Radio Data System) broadcasting.
- The EON data enables you to standby for desired information.
- The PTY Search function searches for programmes in the category you wish.

In addition, Radio Text can be displayed using data sent by station.

**Triple Tray**

■ CD changer function can operate 3 discs.
- Discs can be changed during play using the **TRIPLE TRAY**.
- Continuous, random or program play of 3 discs.

**Three timers**

■ The three timers, **Daily Timer, Recording Timer,** and **Sleep Timer** are extremely easy to set.

## How This Manual Is Organized

In this manual we have incorporated some special features:
- Basic information that is the same for many different functions is grouped in one place, and not repeated in each procedure. For instance, in the section on playing a CD, we do not repeat the information about setting the volume and the sound conditions, which are discussed in the Common Operations section.
- Name of buttons and controls are written in all capital letters like this: SOUND MODE.

The manual has a table of contents to help you quickly look up what you want to know.
We've enjoyed making this manual for you, and hope you will use it to enjoy the sound and many features built into your System.

## IMPORTANT CAUTIONS

**1. Installation of the Unit**
- Select a place which is level, dry and neither too hot nor too cold. (Between 5°C and 35°C or 41°F and 95°F.)
- Leave sufficient distance between the Unit and a TV.
- Do not use the Unit in a place subject to vibrations.

**2. Power cord**
- Do not handle the power cord with wet hands!
- Some power (10 watts) is always consumed as long as the power cord is connected to the wall outlet.
- When unplugging the Unit from the wall outlet, always pull the plug, not the power cord.

**3. Malfunctions, etc.**
- There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the Unit.



English

## Table of Contents


Features ..... 1
How This Manual Is Organized ..... 1
IMPORTANT CAUTIONS ..... 1

**Getting Started ..... 3**
Accessories ..... 3
How to Put Batteries in the Remote Control ..... 3
Using the Remote Control ..... 3
Connecting the FM Antenna ..... 4
Connecting the AM (MW/LW) Antenna ..... 4
Connecting the Speakers ..... 5
Connecting Auxiliary Equipment ..... 5
COMPU PLAY ..... 6

**Common Operations ..... 7**
Demo Mode ..... 7
Setting the Clock ..... 8
Turning the Power On and Off ..... 8
Turning the System On ..... 8
Turning the System Off ..... 8
Adjusting the Volume ..... 8
Reinforcing the Bass Sound ..... 9
Sound Modes ..... 9
Customizing a Sound Mode ..... 10
Changing the Display ..... 10
Listening to Auxiliary Equipment ..... 11

**Using the Tuner ..... 12**
Tuning in a Station ..... 12
Switching between Frequency Bands ..... 12
Three Ways to Select a Station ..... 13
Presetting Stations ..... 13
Changing the FM Reception Mode ..... 13
Receiving FM Stations with RDS ..... 14
What Information RDS can Provide ..... 14
Changing the Display ..... 14
Searching for Programmes by PTY codes ..... 15
EON Function ..... 15
ALARM function ..... 16

**Using the CD Player ..... 17**
Loading CDs ..... 18
Basics of Using the CD Player —
Continuous Play ..... 18
Playing a CD ..... 18
Selecting a Track ..... 19
Locating a Track with the Remote Control Directly ..... 19
Fast Forward / Reverse ..... 19
Changing Discs While Playing ..... 19
Programming the Playing Order of the Tracks ..... 20
Checking the Program ..... 21
Changing the Program ..... 21
Random Play ..... 21
Repeating a Track or the Discs ..... 22
Tray Lock Function ..... 22
Locking the Trays ..... 22
Unlocking the Trays ..... 22

**Using the Cassette Deck (Playing) ..... 23**
Regular Play ..... 24
Fast Left and Fast Right ..... 24
Music Scan ..... 24
Finding the Beginning of the Current Selection ..... 24
Finding the Beginning of the Next Selection ..... 24
Reverse Mode ..... 25

**Using the Cassette Deck (Recording) ..... 26**
Things to Know before You Start Recording ..... 26
Standard Recording ..... 27
Recording AM Station to Tape ..... 28
CD Direct Recording ..... 28
Auto Edit Recording ..... 28
Tape to Tape Recording (Dubbing) ..... 29
How to Use DUBBING ..... 29

**Using the Timer ..... 30**
Setting the Daily Timer ..... 31
Turning the Daily Timer On and Off ..... 32
Setting the Recording Timer ..... 33
Turning the Recording Timer On and Off ..... 34
Setting the Sleep Timer ..... 34
Timer Priority ..... 35

**Care and Maintenance ..... 36**

**Troubleshooting ..... 37**

**Specifications ..... 38**

# Getting Started



## Accessories

Check that you have all of the following items, which are supplied with the System.

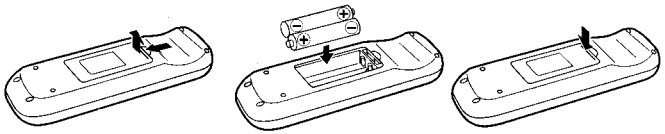
AM (MW/LW) Loop Antenna (1)
Remote Control (1)
Batteries (2)
FM Wire Antenna (1)

If any of these items is missing, contact your dealer immediately.

## How to Put Batteries in the Remote Control

Match the polarity (+ and –) on the batteries with the + and – markings in the battery compartment.

**R6P (SUM-3)/AA (15F)**



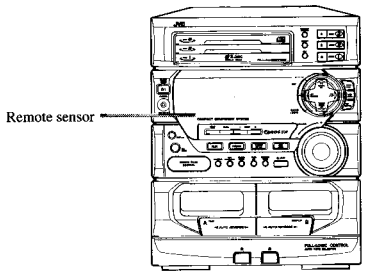
**CAUTION: Handle batteries properly.**

To avoid battery leakage or explosion:

- Remove batteries when the Remote Control will not be used for a long time.
- When you need to replace the batteries, replace both batteries at the same time with new ones.
- Do not use an old battery with a new one.
- Do not use different types of batteries together.

## Using the Remote Control

The Remote Control makes it easy to use many of the functions of the System from a distance of up to 7m (23 feet) away.
You need to point the Remote Control at the remote sensor on the System's front panel.

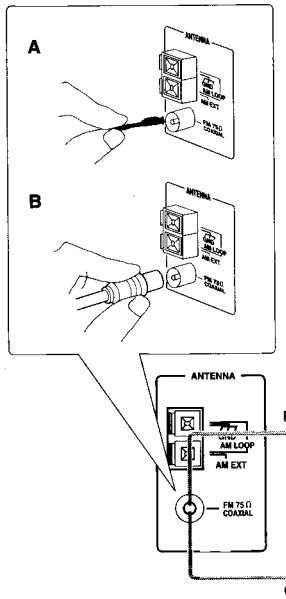







**CAUTION: Make all connections before plugging the Unit into an AC power outlet.**

## Connecting the FM Antenna

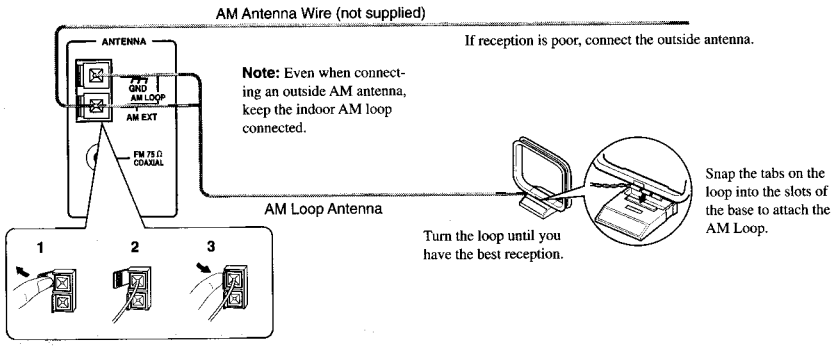

A
B
ANTENNA
FM Wire Antenna
AM LOOP
AM EXT
FM 75Ω COAXIAL
If reception is poor, connect the outside antenna.
Before attaching a 75-ohm coaxial lead (the kind with a round wire going to an outside antenna), disconnect the supplied FM Wire Antenna.
Outside FM Antenna Wire

**A. Using the Supplied Wire Antenna**
The FM Wire Antenna provided can be connected to a FM 75-ohm COAXIAL as temporary measure.
Extend the supplied wire antenna horizontally.

**B. Using the Standard Type Connector (Not Supplied)**
A standard type connector (IEC or DIN 45325) should be connected to the FM 75-ohm COAXIAL terminal.

**CAUTION: To avoid noise, keep antennas away from metallic parts of the System, connecting cord and the AC power cord.**

## Connecting the AM (MW/LW) Antenna


AM Antenna Wire (not supplied)
If reception is poor, connect the outside antenna.
ANTENNA
GND
AM LOOP
AM EXT
FM 75Ω COAXIAL
Note: Even when connecting an outside AM antenna, keep the indoor AM loop connected.
AM Loop Antenna
Turn the loop until you have the best reception.
Snap the tabs on the loop into the slots of the base to attach the AM Loop.
1
2
3

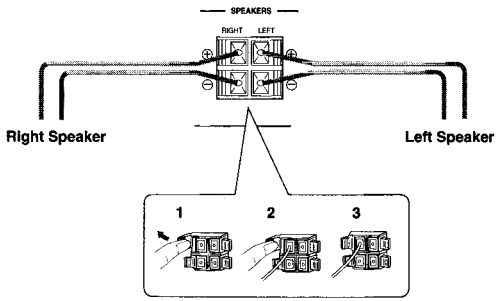
**CAUTION: Make all connections before plugging the Unit into an AC power outlet.**

## Connecting the Speakers

■ Please refer to instructions for speakers as well when you connect speakers.

For each speaker, connect one end of the speaker wire to the speaker terminals on the back of the System.

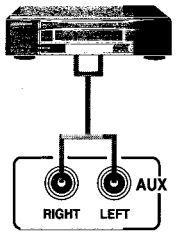
1. Open each of the terminals and insert the speaker wires firmly, then close the terminals.
2. Connect the red (+) and black (–) terminals of the right side speaker to the red (+) and black (–) terminals marked RIGHT on the System.
   Connect the red (+) and black (–) terminals of the left side speaker to the red (+) and black (–) terminals marked LEFT on the System.




**IMPORTANT: Use speakers with the correct impedance only. The correct impedance is indicated on the back panel.**
**CAUTION: If a TV is installed near the speakers, the TV may display irregular colours. In this case, set the speakers away from the TV.**

## Connecting Auxiliary Equipment

**VCR or other equipment**
To listen to this source, press AUX.



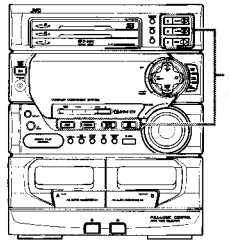

**Now you can plug the AC power cord into the wall outlet, and your System is at your command!**

English

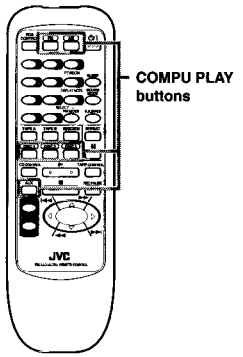
## COMPU PLAY

COMPU PLAY is JVC's feature that lets you control the most frequently used functions of the System with a single touch.
One Touch Operation starts playing a CD, turns on the radio, plays a tape, etc. with a single press of the play button for that function. What One Touch Operation does for you is to turn the power on, then start the function you have specified. If the Unit is not ready, such as no CD or tape in place, the Unit still powers on so you can insert a CD or tape.
How One Touch Operation works in each case is explained in the section dealing with that function.
The COMPU PLAY buttons are:

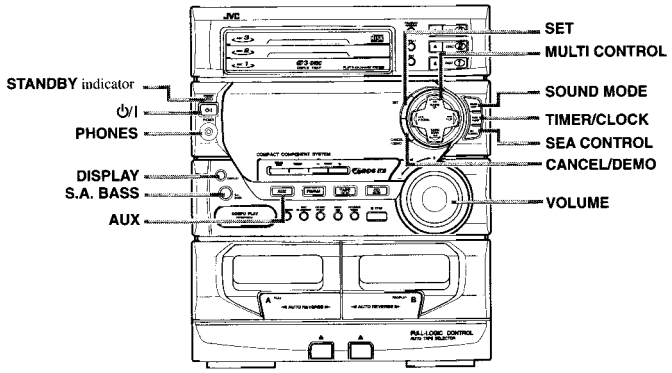
**On the Unit**
- CD Player DISC 1 to DISC 3 buttons
- CD Player Open/Close (⏏) buttons
- CD ►/II button
- TAPE ◄◄ ►► button
- FM/AM button
- AUX button

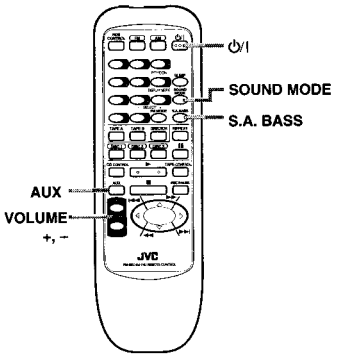



**On the Remote Control**
- FM button
- AM button
- DISC 1 to DISC 3 buttons
- AUX button

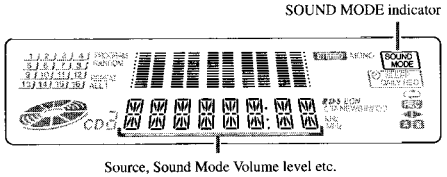


# Common Operations



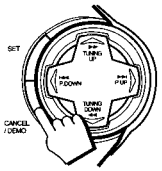




## Display




When the System is being used, the display shows other items as well. However, we have only shown the items described in this section.

## Demo Mode




When the System is connected to an AC power outlet, a Demo automatically starts showing some of the system's features.
The Demo display cycles through the following items repeatedly.

- Scrolling display of "DEMO MODE START".
- Demo of Sound Modes.
- Demo of S.A. BASS
- Demo of continuous play from DISC 1 to DISC 3.

**To turn the Demo off,** press any of the operation buttons. "DEMO OFF" appears on the display and the Demo automatically stops.

**To turn the Demo on,** press CANCEL/DEMO for more than 2 seconds.

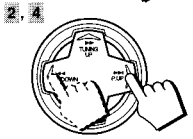




## Setting the Clock

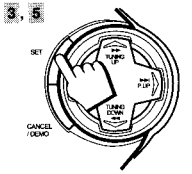
Before operating the unit, set the correct time.
You can set the clock whether the Unit is on or off.

**1. Press TIMER/CLOCK.**
The hour digits begin flashing.



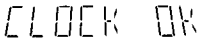
**2. Press ⏮ P. DOWN or ⏭ P. UP on the MULTI CONTROL to set the hours.**
Press ⏭ P. UP to increase the hour. Press ⏮ P. DOWN to decrease the hour. Holding down continuously changes the hour setting more rapidly.

**3. Press SET.**
The minute digits begin flashing.



**4. Press ⏮ P. DOWN or ⏭ P. UP on the MULTI CONTROL to set the minutes.**
Press ⏭ P. UP to increase the minutes. Press ⏮ P. DOWN to decrease the minutes. Holding down continuously changes the minute setting more rapidly.

**5. Press SET.**
"CLOCK OK" appears on the display.
The clock stops flashing, and the clock timer starts from 0 second.

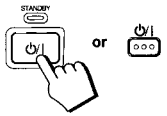


- If the clock is not set, "0:00" will flash instead of the clock indication.
- When the time has been set, TIMER/CLOCK can be used to operate the Daily Timer and Recording Timer.
- To adjust the time once the clock has been set, press TIMER/CLOCK 5 times and follow the procedure above.

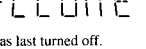
**CAUTION: If there is a power failure, the clock loses its setting. The display shows "0:00", and the clock must be reset.**

## Turning the Power On and Off

### Turning the System On




**Press ⏻/I.**
"WELCOME" appears on the display and the STANDBY indicator goes out.

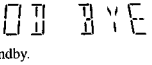


The System comes on ready to continue in the mode it was in when the power was last turned off.

- If the last thing you were doing was listening to a tape in Deck B, you are now ready to listen to a tape again in Deck B, or you can change to another source.
- If you were listening to the Tuner last, the Tuner comes on playing the station it was last set to.

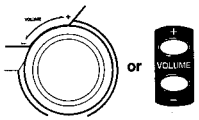
### Turning the System Off

**Press ⏻/I again.**
"GOOD BYE" appears on the display for a while and the STANDBY indicator lights up. The clock time appears on the display.



- Some power (10 watts) is always consumed even though the power is on standby.
- To switch off the Unit completely, unplug the AC power cord from the AC outlet. When you unplug the AC power cord, the clock will be reset to 0:00 immediately, and preset Tuner stations will be erased in a few days.

## Adjusting the Volume




Turn VOLUME clockwise to increase the volume or anticlockwise to decrease it.
Turning VOLUME quickly also adjusts the volume level quickly.
When using the Remote Control, press VOLUME + to increase the volume or press VOLUME – to decrease it.
You can adjust the volume level between 0 and 50.

**CAUTION: The Volume cannot be adjusted while the Unit is on STANDBY. DO NOT turn on the Unit and/or start playing any source without setting the VOLUME control to 0; otherwise, the sudden blast of sound can damage your hearing, speakers and/or headphones.**

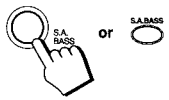
English

### For private listening

Connect a pair of headphones to the PHONES jack. No sound comes out of the speakers.
Be sure to turn down the volume before connecting or putting on headphones.

## Reinforcing the Bass Sound

S.A. (Signal Adaptive) BASS adjusts low tones at low volume to enhance their effect. When the volume level is low, this enhances low tones that are normally difficult to hear and adjusts low tones to a fixed level to reduce low tone distortion.




### Press S.A. BASS.

Pressing S.A. (Signal Adaptive) BASS changes the bass setting in the following order.
→ **SA-BASS1** → **SA-BASS2** → OFF → (back to the beginning)

The S.A. BASS indicator lights up, and "SA-BASS1" or "SA-BASS2" appears on the display for three seconds.

■ SA-BASS2 enhances low tones more than SA-BASS1.

**To cancel the effect,** press S.A. BASS until "OFF" appears on the display. The button light goes out.

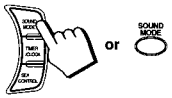
**To recall the previous S.A. BASS mode,** press S.A. BASS once.

■ When listening to recording with low volume low tones, the difference between SA-BASS1 and SA-BASS2 is clear. When listening to recording with louder low tones, however, the difference between SA-BASS1 and SA-BASS2 may not be so clear.

## Sound Modes

The System has some preset sound effects that give you control of the way your music sounds, so you can tailor it for your room and for the quality of the source. We can give you some idea of how each one affects the music, but the only way to really tell is to try them yourself.
You can also create up to three of your own customized S.E.A. (Sound Effect Amplifier) settings and store them in the Unit's memory (MANUAL 1, MANUAL 2, MANUAL 3).

■ The preset sound modes include modes using surround effects and modes using S.E.A. effects.
■ Sound Mode effects cannot be recorded.




**To get an effect,** press SOUND MODE repeatedly until the Sound Mode you want appears on the display. The Sound Mode selected will appear on the display for three seconds. When a surround effect mode is selected, the frame around the SOUND MODE indicator will light up. When a S.E.A. effect mode is selected, the SOUND MODE indicator will light up.
Each time you press SOUND MODE, the Sound Mode changes as follows:

→ **D. CLUB** → **HALL** → **STADIUM** → **ROCK** → **POP** → **CLASSIC** → **MANUAL 1** → **MANUAL 2** → **MANUAL 3** → OFF → (back to the beginning)

### Surround effect modes

| | |
|---|---|
| **D. CLUB (Dance Club)** | Increases resonance and bass. |
| **HALL** | Adds depth and brilliance to the sound, like in a concert hall. |
| **STADIUM** | Adds clarity and spreads the sound, like in an outdoor stadium. |

### S.E.A. effect modes

| | |
|---|---|
| **ROCK** | Boosts low and high frequencies. |
| **POP** | Good for vocal music. |
| **CLASSIC** | Set for wide and dynamic sound stereo systems. |

SOUND MODE

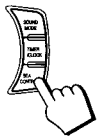
**To cancel an effect,** press SOUND MODE until "OFF" appears on the display. The SOUND MODE indicator goes out.

**To recall the previous Sound Mode,** press SOUND MODE once.



## Customizing a Sound Mode

You can change an existing sound mode to suit your own preferences. These changed settings can be stored in the Unit's sound mode memory.

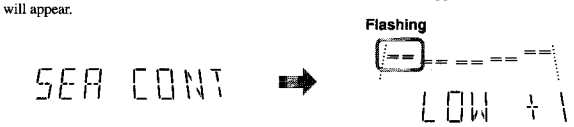


### 1. Select the Sound Mode you want to change.

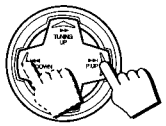
If you select D. CLUB, HALL, or STADIUM, the surround effect remains unchanged, but you can adjust the S.E.A. effect.

### 2. Press SEA CONTROL.

The low tone section of the tone equalizer flashes. Once "SEA CONT" appears, the low tone levels will appear.

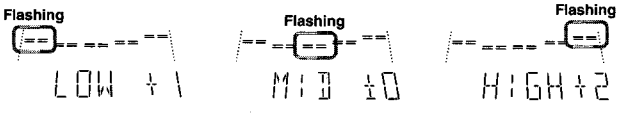


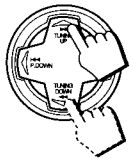

**Note:** If no adjustments are made for 10 seconds after SEA CONTROL is pressed, Sound Mode will appear on the display then revert to the previous display.



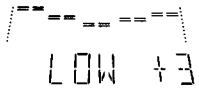
### 3. Use MULTI CONTROL to adjust to any Sound Mode desired.

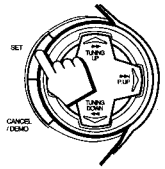
Press |◄◄ P. DOWN or ►►| P. UP on the MULTI CONTROL to select the tone range you want to adjust. You can adjust "LOW", "MID" or "HIGH" tone.



Press TUNING DOWN ◄◄ or ►► TUNING UP on the MULTI CONTROL to adjust the level.
The level can be adjusted between –3 and +3 in 7 steps.



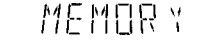

### 4. Press SET.

"MANUAL 1" appears on the display.

### 5. Press |◄◄ P. DOWN or ►►| P. UP on the MULTI CONTROL to select the MANUAL number for the memory.

### 6. Press SET again.

"MEMORY" appears for 2 seconds.
The setting that has been created is stored in the memory.




■ The adjustment you have made will apply to the sound you hear.
■ If you store new settings to a memory number that has already been used, the new settings replace the existing setting.

## Changing the Display

■ The display normally indicates each source, but it can be switched to the clock time.

### Press DISPLAY.

Each time you press the button, the source and the clock time are shown alternately on the display.

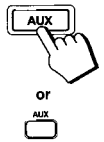
Source (example CD Player) ⟷ Clock time

■ The clock indication can be interchanged with the source indication using the Unit or Remote Control.
■ The clock indication may change to source indication depending on the operation of the Unit.

# Listening to Auxiliary Equipment

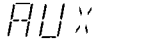
By playing the sound from auxiliary equipment through the System, you can gain control over how the music or program sounds. Once the connected equipment is playing through the System, you can apply the sound effects.

■ First make sure that the auxiliary equipment is properly connected to the System. (See page 5).




**1. Turn down the volume level to 0.**

**2. Press AUX.**
"AUX" appears on the display. The AUX button on the Unit lights up.




***COMPU PLAY***
When AUX is pressed while the power is on standby, the power is automatically turned on.

**3. Start playing the equipment.**

**4. Adjust the volume level to the desired listening level.**

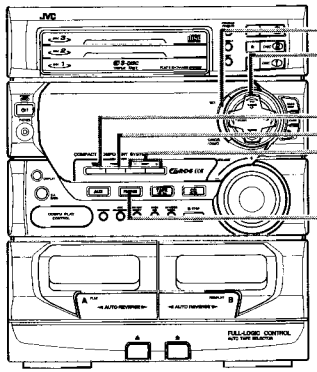
**5. Select a Sound Mode, if you wish.**

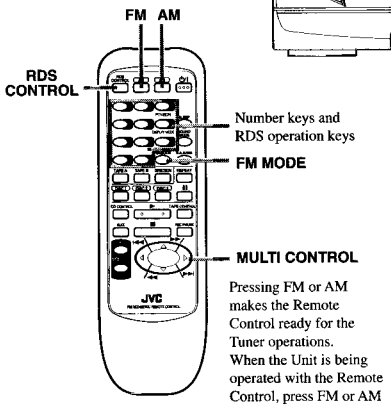
**To cancel the setting**
Change the source by starting any one of the System's built-in sound sources, such as the Tuner or CD Player.



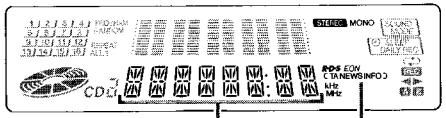
English

# Using the Tuner





FM AM
RDS CONTROL
Number keys and RDS operation keys
FM MODE
MULTI CONTROL
Pressing FM or AM makes the Remote Control ready for the Tuner operations.
When the Unit is being operated with the Remote Control, press FM or AM first.

**Display**




When the System is being used, the display shows other items as well. However, we have only shown the items described in this section.

You can listen to both FM and AM (MW/LW) stations. Stations can be tuned in manually, automatically, or from preset memory storage.

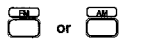
■ Before listening to the radio:
- Check that both the FM and AM antennas are firmly connected. (See page 4.)

## Tuning in a Station

**Press FM/AM on the Unit (or FM or AM on the Remote Control) to turn on the radio.**
The frequency of the previously selected channel appears on the display.

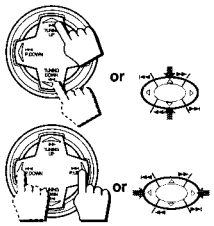
**Switching between Frequency Bands**
**On the Unit**
**Press FM/AM.**
Each time you press the button, the band alternates between FM and AM (MW/LW).

***COMPU PLAY***
When FM/AM is pressed while the power is on standby, the power is automatically turned on.



**On the Remote Control**
**To tune in FM stations, press FM.**
**To tune in AM stations, press AM.**

*COMPU PLAY*
When FM or AM is pressed while the power is on standby, the power is automatically turned on.



## Three Ways to Select a Station

- Press TUNING DOWN ◄◄ or ►► TUNING UP on the MULTI CONTROL repeatedly to move from frequency to frequency until you find the one you want. (Manual Tuning).

OR

- Press and hold TUNING DOWN ◄◄ or ►► TUNING UP on the MULTI CONTROL for a few seconds, the frequency starts changing on the display. When a station is tuned in, the frequency stops changing. (Auto Tuning).

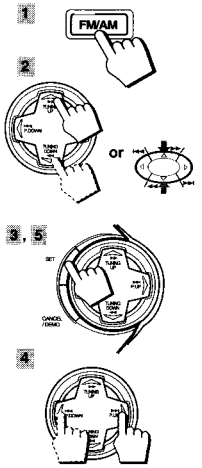
OR

- Possible only after presetting stations.
  Press once and release ⏮ P. DOWN or ⏭ P. UP on the MULTI CONTROL to go to the next preset station.

**You can also use the Remote Control to tune in preset channels:**

1. Press FM or AM so that you can receive the last station tuned in.
2. Select the station by entering the preset number in the number keys of the Remote Control.
   - Example: for channel 5, press 5. For channel 15, press +10 then 5. For channel 20, press +10, then 10. For channel 30, press +10 twice then 10. 
   - After you have selected the preset number and the number appears, the broadcast frequency of the selected channel appears on the display.

# Presetting Stations

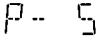


You can preset up to 30 FM stations and up to 15 AM (MW/LW) stations for the preset numbers.
**Note:** In some cases, test frequencies have been already memorized for the tuner since the factory examined the tuner preset function before shipment. This is not a malfunction. You can preset the stations you want into memory by following the presetting method.

**1. Select a band by pressing FM/AM on the Unit.**
When using the Remote Control, press FM or AM.

**2. Press TUNING DOWN ◄◄ or ►► TUNING UP on the MULTI CONTROL to tune into a station.**

**3. Press SET.**
"SET" flashes for 5 seconds.
While it is still flashing, carry out the following procedure.

**4. Press ⏮ P. DOWN or ⏭ P. UP on the MULTI CONTROL on the Unit to set the preset number.** 

**5. Press SET again.**
"STORED" appears for 2 seconds. The preset station is stored in the memory.

**6. Repeat steps 1 to 5 for each station you want to store in memory using different preset numbers.**

**CAUTION: If the Unit is unplugged or if a power failure occurs, the preset stations will be erased in a few days. If this happens, preset the station again.**

# Changing the FM Reception Mode

When an FM stereo broadcast is hard to receive or noisy, press FM MODE on the Remote Control so that the MONO indicator lights up on the display. Reception improves, but there is no stereo effect.

**To restore the stereo effect,** press FM MODE on the Remote Control so that the MONO indicator goes out. In this stereo mode, the STEREO indicator lights up and you can hear stereo effects, when a program is broadcast in stereo.



English

# Receiving FM Stations with RDS

R·D·S

RDS (Radio Data System) allows the FM stations to send additional signals along with their regular programme signals. For example, the stations send their station names and information about what type of programme they broadcast, such as sports or music, etc.
When tuned to an FM station which provides the RDS service, the station frequency (and then the station name if sent) is displayed.
One convenient RDS service is "Enhanced Other Networks (EON)". This allows the Unit to automatically switch to a programme type of your choice when one starts in your broadcast area.

- Not all FM stations provide RDS service, nor do all RDS stations provide the same services. If in doubt, check with local radio stations for details on RDS services in your area.
- RDS may not work correctly if the station to which you are tuned is not transmitting properly or if the signal strength is weak.

## What Information RDS can Provide

The System can use the following RDS service.

### PS (Programme Service name)
Identifies each station by a name.

### TA (Traffic Announcement Identification)
Identifies that a traffic announcement is being broadcast in your area.

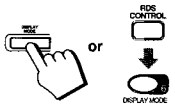
### RT (Radio Text)
Allows the RDS station to send text messages that appear on the display of the unit.

### PTY (Programme Type)
Identifies the type of RDS programme. This allows you to locate a specific type of programme being broadcast.

The programme types are as follows:

| | | | | |
|---|---|---|---|---|
| NEWS | AFFAIRS | INFO | SPORT | EDUCATE |
| DRAMA | CULTURE | SCIENCE | VARIED | POP M |
| ROCK M | M.O.R. M | LIGHT M | CLASSICS | OTHER M |
| WEATHER | FINANCE | CHILDREN | SOCIAL A | RELIGION |
| PHONE IN | TRAVEL | LEISURE | JAZZ | COUNTRY |
| NATIONAL | OLDIES | FOLK M | DOCUMENT | TRAFFIC |
| ALARM | | | | |

### EON (Enhanced Other Networks)
Provides information available on RDS stations other than the one which is being received.



## Changing the Display

You can see RDS information on the display while listening to a FM station.
To view RDS information on the display, press DISPLAY MODE. (When using the Remote Control, press 6 DISPLAY MODE after pressing RDS CONTROL).
Each time you press the button, the display changes to show the following information:

**PS (Programme Service):**
Station names will be displayed.
▼
**PTY (Programme Type):**
Types of broadcast programmes will be displayed.
▼
**RT (Radio Text):**
Text message sent by stations will be displayed.
▼
**Station Frequency:**
Station frequencies.

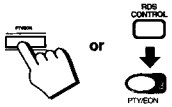
- While RDS information is being received from a station, "PS", "PTY", or "RT" may appear on the display.

## Searching for Programmes by PTY codes

One of the advantages of the RDS service is that you can locate a particular kind of programme by specifying the PTY codes.

■ The PTY Search function is applicable to preset stations only.

**To search for a programme using the PTY codes, follow this procedure:**

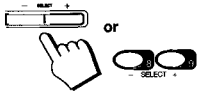



**1. Press PTY/EON once.**

- When using the Remote Control, press 3 PTY/EON after pressing RDS CONTROL.

"PTY" and "SELECT" appear alternately on the display.

**Note:** If no adjustments are made for 10 seconds in PTY Select mode, the display reverts to the previous display. Perform the next step while "PTY" and "SELECT" are being displayed.

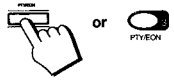



**2. Press SELECT + or SELECT – to select a PTY.**

- When using the Remote Control, press 8 SELECT – or 9 SELECT +.

Each time you press the button, PTY codes change as follows:

SELECT + →
↔ **NEWS ↔ AFFAIRS ↔ INFO ↔ SPORT ↔ EDUCATE ↔ DRAMA ↔ CULTURE ↔ SCIENCE ↔ VARIED ↔ POP M ↔ ROCK M ↔ M.O.R. M ↔ LIGHT M ↔ CLASSICS ↔ OTHER M ↔ WEATHER ↔ FINANCE ↔ CHILDREN ↔ SOCIAL A ↔ RELIGION ↔ PHONE IN ↔ TRAVEL ↔ LEISURE ↔ JAZZ ↔ COUNTRY ↔ NATIONAL ↔ OLDIES ↔ FOLK M ↔ DOCUMENT ↔ TRAFFIC ↔**
← SELECT –




**3. Press PTY/EON again.**

- When using the Remote Control, press 3 PTY/EON.

While the search function is running, the selected programme type and "SEARCH" alternate on the display.

Once the station which is broadcasting the selected PTY (Programme Type) is located, searching will stop. Then the station name (if PS code is being sent) will be indicated and the broadcast will commence. The indication will stay flashing for 10 seconds from the end of the searching function. If you press PTY/EON again during this period, search for the same PTY (Programme Type) will restart.

■ If a station broadcasting a selected PTY( Program Type) cannot be found, "NOTFOUND" appears on the display after the Unit has searched through the preset numbers. The Unit will return to the station to which it was tuned prior to the start of the PTY Search.

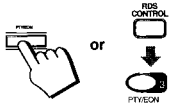
**To cancel a PTY Search operation,** press PTY/EON . (When using the Remote Control, press 3 PTY/EON.)

## EON Function

With the EON (Enhanced Other Networks) code, the Unit can perform a standby reception which will enable you to obtain desired information which is available from other stations.

■ "EON" will be shown while receiving stations with an EON code.
■ EON Standby reception is applicable for preset stations only.
■ You can set EON Standby reception regardless of types of receiving bands.

### Setting EON Standby reception

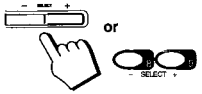



**1. Press PTY/EON twice.**

- When using the Remote Control, press 3 PTY/EON after pressing RDS CONTROL.

The last EON information type selected appears.





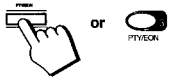

**2. Select information you want by pressing SELECT + or SELECT –.**

- When using the Remote Control, press the 9 SELECT + or 8 SELECT – button.

**TA:** Identifies that a traffic announcement is being broadcast in your area.
**NEWS:** News
**INFO:** Programmes on medical service, weather forecast, etc.

- Each time you press the button, EON codes change as follows:

SELECT + →
↔ **TA↔ NEWS ↔ INFO ↔ OFF ↔**
← SELECT –



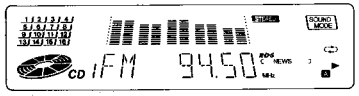

**3. Press PTY/EON.**

- When using the Remote Control, press 3 PTY/EON.
  As soon as your selection is entered, the Unit will go into EON Standby reception mode.

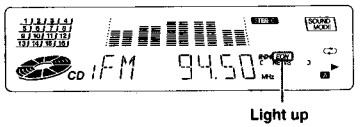
**To cancel the EON function,** select "OFF" by following the steps above.

**When this Unit carries out EON Standby reception, the indication will change as follows:**

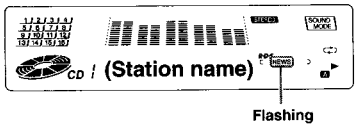
1. Waiting for EON Standby reception.




2. Preset stations are being searched for and while preparing to change the station, sound will be muted.




3. The station will be changed and the Station name being received will appear on the display.




- To view the other RDS information on the display, press DISPLAY MODE. (When using the Remote Control, press 6 DISPLAY MODE after pressing RDS CONTROL).

**Notes:**

- EON broadcasts of some stations may not be compatible with this Unit. In the case of an incompatible EON broadcast, "EON" will not appear on the display.
- If the reception is unsatisfactory for a station among the preset stations, the station is searched for again. If after searching through the channels, the broadcasting station cannot be found, "NOTFOUND" appears on the display. The Unit will return to the station to which it was previously tuned.

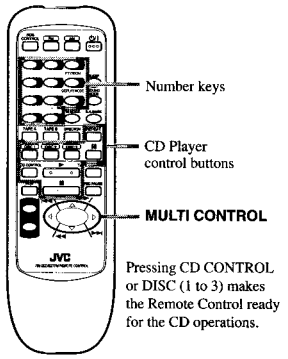
When broadcasting of the desired information has been completed, the Unit will automatically go back to the station which had previously been tuned to.

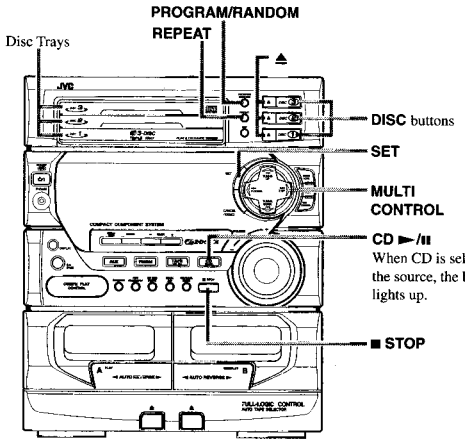
■ While receiving information on EON Standby reception, the station will not change to other stations even if the same information is available from them.
■ If the information you are waiting for is available from the current station, the indicator will flash.

## ALARM function

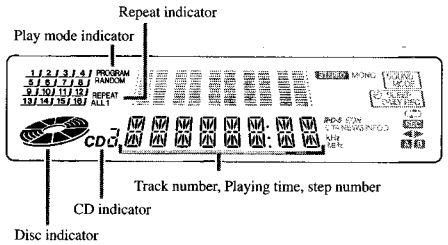
If an ALARM (Emergency) signal is received while receiving an EON code from a station, the Unit automatically switches to the station broadcasting the ALARM signal.

# Using the CD Player


Number keys
CD Player control buttons
MULTI CONTROL
Pressing CD CONTROL or DISC (1 to 3) makes the Remote Control ready for the CD operations.




## Display



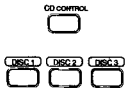

**Disc indicator**
Flashes while a CD is playing.
Is lit when a CD has stopped or is paused.

**CD Indicator**
Indicates the number of the disc selected.

When the System is being used, the display shows other items as well. However, we have only shown the items described in this section.

The System's CD Player has an Automatic Changer with 3 disc trays. You can use Continuous, Random, Program or Repeat Play for the discs in DISC 1, DISC 2 and DISC 3. Repeat Play can repeat all the tracks on all the CD's or one track on one CD. There is also the Tray Lock function, which safely keeps discs in the trays.

Here are the basic things you need to know to play a CD and locate the different selections on it. Each selection is called a track, so when we are talking about locating a track, we are also talking about how you find a certain song or performance.



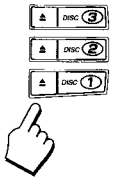

### Entering CD Operation Mode with the Remote Control

Pressing CD CONTROL or DISC (1 to 3) makes the Remote Control ready for the CD operations.
Operate the CD player with ►, ■, MULTI CONTROL and number keys.
The explanation provided in this section assumes that the Remote Control has been put into CD operation mode. When you use the Remote Control, press CD CONTROL first.

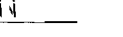


English

# Loading CDs



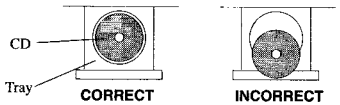

**1. Press ▲ on the CD Player you want to insert the disc onto.**
"OPEN" appears on the display and the disc tray slides out.




***COMPU PLAY***
When ▲ is pressed while the power is on standby, the power is automatically turned on.

**2. Place a CD, with its label side up, onto the tray.**

***ATTENTION:*** *To avoid malfunctions when you play a CD, set the CD in the right place at the centre of the tray.*




**3. Press ▲ to close the tray.**
"CLOSE" appears on the display.



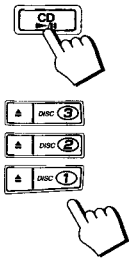

**4. Repeat steps 1 to 3 to insert other discs onto the other trays.**
- To continue putting discs onto other trays, even if a tray is open, by pressing the ▲ button of another disc tray, the open tray will close automatically, and the new disc tray will slide out.

■ When you place a CD onto the currently selected tray, whose disc number shown on the CD indicator, reading of the CD starts. The total number of tracks and total playing time appear after the reading is completed, then the playing time of the first track appears.

**Reading now (flashing)** | **Total number of tracks and playing time** | **Playing time of the 1st track**

■ To put an 8 cm CD onto a tray, insert it so that it is aligned with the groove in the tray's centre.
■ If a tray is open when the System switches to the standby mode, the tray will close automatically.

# Basics of Using the CD Player — Continuous Play




## Playing a CD

Prepare the CDs.

### On the Unit

**Press CD ►/II.**
The source is set to CD and play starts from the first track of the currently selected CD whose disc number shown on the CD indicator.

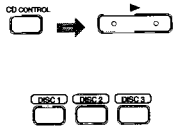
**Press DISC (1 to 3) of the disc you want to play.**
The source is set to CD and play starts from the first track of the selected CD.

***COMPU PLAY***
When CD ►/II or DISC (1 to 3) is pressed while the power is on standby, the power is automatically turned on.

■ When you press CD ►/II or DISC (1 to 3) while the disc tray is open, the tray will automatically close before beginning to play.
■ If there is no CD in the disc tray, "NO DISC" appears on the display.

### Playing order of discs

■ When playback starts from DISC 1, the playing order is DISC 1 → DISC 2 → DISC 3.
When DISC 3 has finished, the CD Player stops.
■ When playback starts from DISC 2, the playing order is DISC 2 → DISC 3 → DISC 1.
When DISC 1 has finished, the CD Player stops.
■ When playback starts from DISC 3, the playing order is DISC 3 → DISC 1 → DISC 2.
When DISC 2 has finished, the CD Player stops.
- If any of the disc trays are empty, the CD Player skips that disc tray and continues through the remaining disc trays in the order shown above. When the last disc has finished playing, the Unit will stop automatically.



### On the Remote Control

**Press CD CONTROL then press ►.**

The source is set to CD and play starts from the first track of the currently selected CD whose disc number shown on the CD indicator.

- If the above operation is carried out while the power is on standby, the power is automatically turned on.

**Press DISC (1 to 3) of the disc you want to play.**

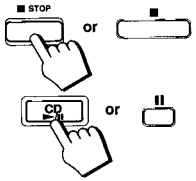
The source is set to CD and play starts from the first track of the selected CD.

---

*COMPU PLAY*

When DISC (1 to 3) on the Remote Control is pressed while the power is on standby, the power is automatically turned on.

---



**To stop play the disc,** press ■ STOP (or ■ on the Remote Control). The display will show the total number of tracks and total playing time of the disc that was playing followed by the playing time of the first track.

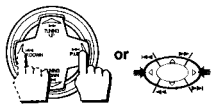
**To stop play and remove the disc,** press ≜ for the disc being played.

**To pause,** press CD ►/II (or II on the Remote Control). The playing time will flash.

**To cancel pause,** press CD ►/II (or ► on the Remote Control) the Unit. Play continues from the point where it was paused.

## Selecting a Track

**Press I◄◄ P. DOWN or ►►I P. UP on the MULTI CONTROL to select the track.**

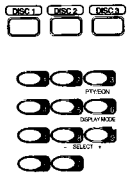


The selected track starts playing.

■ Each time you press I◄◄ P. DOWN or ►►I P. UP, the track changes by one.
Press and hold I◄◄ P. DOWN or ►►I P. UP to continuously change tracks.

## Locating a Track with the Remote Control Directly

Using the number keys on the Remote Control allows you to go directly to the beginning of any track.



**1. Press the DISC (1 to 3) for the disc tray containing the track you want to listen to.**

- Example: for the third disc, press DISC 3.

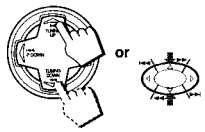
**2. Enter the number of the track you want to listen to with the number keys.**

The selected track starts playing.

- Example: for track 5, press 5. For track 15, press +10 then 5. For track 20, press +10, then 10. For track 32, press +10 three times, then 2.

## Fast Forward / Reverse

**Use TUNING DOWN ◄◄ or ►► TUNING UP on the MULTI CONTROL.**



For Fast Forward, press and hold down ►► TUNING UP. For Reverse, press and hold down TUNING DOWN ◄◄. Release the button when the part you wish to listen to is reached.

## Changing Discs While Playing

You can replace a CD in a tray not being used, while another CD is playing.

**1. Press ≜ of the tray not being used.**

The tray opens.

**2. Replace the disc in the tray.**

**3. Press ≜ to close the tray.**





# Programming the Playing Order of the Tracks

You can change the order in which the discs and tracks play, and select only the discs and tracks you want from among those loaded in the CD Player.

■ You can programme up to 32 steps in any desired order from among the discs in the CD player.
■ You can only make a programme when the CD Player is stopped.

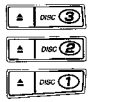
### On the Unit

**1. Press PROGRAM/RANDOM.**

"PROGRAM" appears on the display and the PROGRAM indicator lights up.
If you have already created a programme, the last step of the previous programme will appear on the display.

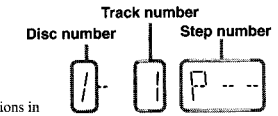


Each time you press the button, play mode changes as follows:
→ **PROGRAM** → **RANDOM** → No Play mode indicator (Continuous Play) → (back to the beginning)

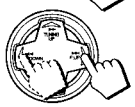


**2. Select a disc with DISC (1 to 3).**

The display changes to the Programme Entry display and the disc number and track number flash for a few seconds.

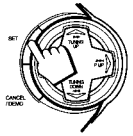



■ While the indications are flashing, perform the operations in steps 3 to 4. When the flashing indications change to "PROGRAM", repeat the operations in steps 2 to 4.



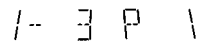
**3. Press I◄◄ P. DOWN or ►►I P. UP on the MULTI CONTROL to select a track for programming.**

The disc number and track number starts flashing on the display.



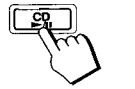
**4. Press SET.**

The indications on the display stop flashing and remains lit. The step number appears on the display.



**5. Repeat steps 2 to 4 to select the other tracks for the programme.**

To select another track from the same disc, repeat the procedure from step 3.



**6. Press CD ►/II.**

The Unit plays the tracks in the order you have programmed them.

### On the Remote Control

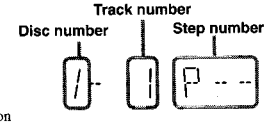
**1. Press PROGRAM/RANDOM on the Unit.**

"PROGRAM" appears on the display and the PROGRAM indicator lights up.
If you have already created a programme, the last step of the previous program will appear on the display unless you have erased the program.

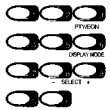
Each time you press the button, play mode changes as follows:
→ **PROGRAM** → **RANDOM** → No Play mode indicator (Continuous Play) → (back to the beginning)

**2. Select a disc with DISC (1 to 3).**

The display changes to the Programme Entry display and the disc number and track number flash for a few seconds.

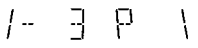



■ While the indications are flashing, perform the operation in step 3. When the flashing indications change to "PROGRAM", repeat the operations in steps 2 to 3.



**3. Press the number keys (1 to 10 and +10) to select the tracks.**
The indications on the display stop flashing and remains lit.
The selected track numbers light up and the step number appears on the display.

- Example: For track 5, press 5.
  For track 15, press +10 then 5.
  For track 20, press +10 then 10.
  For track 32, press +10 three times, then 2.

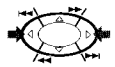


**4. Repeat steps 2 to 3 to select the other tracks for the programme.**

**5. Press ►.**
The Unit plays the tracks in the order you have programmed them.

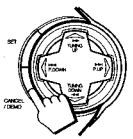
- If you try to programme a 33rd track, "FULL" will appear on the display to let you know that the programme is full.
- If you try to programme a disc tray that is empty, or a track number that does not exist on a disc (for example, selecting track 14 on a disc that only has 12 tracks), the selected disc or track are skipped when the programme is played.
- You can skip to a particular programme step by pressing the MULTI CONTROL (I◄◄ P. DOWN or ►►I P. UP) or I◄◄ or ►►I on the Remote Control during programme play.
- To play the programmed tracks repeatedly, press REPEAT. For details, refer to "Repeating a Track or the Discs" on page 22.

**To stop playing,** press ■ STOP (or ■ on the Remote Control) once.
**To delete all the tracks in a programme,** press ■ STOP (or ■ on the Remote Control) while the CD Player is stopped. The programme is deleted and "PROGRAM" appears on the display.
**To cancel programme play,** press ■ STOP (or ■ on the Remote Control) while "PROGRAM" is shown on the display.



## Checking the Programme

While the CD Player is stopped, use I◄◄ or ►►I on the Remote Control to check the contents of the programme.
Each time you press ►►I, the programme contents are shown on the display in the programmed order.
Pressing I◄◄ displays the previous step in the programme.



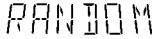
## Changing the Programme

Modify the contents of a programme while the CD Player is stopped.
Press CANCEL/DEMO on the Unit, the last step in the programme is deleted.
Each time you press the button, the last step listed in the programme is deleted from the programme.
To add a step to the programme, follow the procedure above (on either the Unit or the Remote Control).
The new steps are added to the end of the programme.

# Random Play

The tracks of all loaded CDs will play at random.

**1. Press PROGRAM/RANDOM while the CD Player is stopped to change to the Random Mode display.**



Each time you press the button, play mode changes as follows:
→ **PROGRAM** → **RANDOM** → No Play mode indicator (Continuous Play) → (back to the beginning)

**2. Press CD ►/II.**
The tracks of all the CDs are played in random order.
When all of the tracks have been played, the CD Player stops.

**Note:** Random Play cannot be activated with the DISC buttons and the number keys.

- You can skip to the next track by pressing ►►I P. UP on the MULTI CONTROL (or ►►I on the Remote Control) during Random Play. Each time you press the button, the next track is jumped to. (You cannot skip to the previous tracks, nor to the beginning of the current track during Random Play.)
- To continue with a different random track selection after the last track is played, press REPEAT to select REPEAT ALL before or during Random Play.

**To cancel Random Play,** press ■ STOP (or ■ on the Remote Control) twice. When the RANDOM indicator goes out, Continuous Play mode is resumed.





# Repeating a Track or the Discs

You can have all the discs, the program or the individual track currently playing repeat as many times as you like.

**Press REPEAT on the Unit.**
Each time you press the button, the Repeat Modes change as follows.
→ **REPEAT ALL** → **REPEAT 1** → No indicator → (back to the beginning)

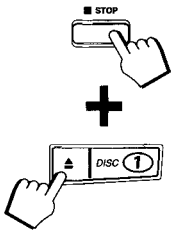
**REPEAT ALL:** Repeats all the tracks on the CDs, or all the tracks in the program.
**REPEAT 1:** Repeats one track on one CD.

**To exit Repeat Mode,** press REPEAT until the Repeat Mode indicator on the display goes out.

# Tray Lock Function

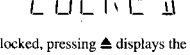
In order to safely keep the discs in the CD Player, the three trays can be electronically locked in a single operation.
When the Tray Lock function is on, the trays cannot be opened even if the ≜ button is pressed.
This function can only be accessed by using the buttons on the Unit itself.

## Locking the Trays



**1. Put the System's power into STANDBY mode.**

**2. While pressing ■ STOP, press ≜ for DISC 1 on the Unit.**
"LOCKED" appears on the display to let you know that the trays have been locked.

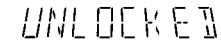


When the CD Player trays are locked, pressing ≜ displays the message "LOCKED" on the display and the trays do not open. Also, ≜ cannot be used to automatically turn on the power.

## Unlocking the Trays

**1. Put the System's power into STANDBY mode.**

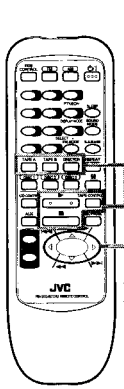
**2. While pressing ■ STOP, press ≜ for DISC 1 on the Unit.**
When the unlock operation is done, "UNLOCKED" appears on the display to show that the lock has been taken off.



The trays can now be opened by pressing ≜.
The ≜ can also be used to automatically turn on the power.

# Using the Cassette Deck (Playing)

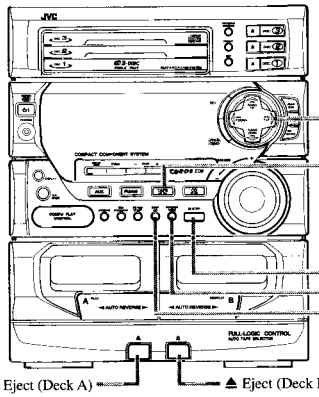
English



Cassette Deck control buttons

**MULTI CONTROL**

Pressing TAPE CONTROL makes the Remote Control ready for the Cassette Deck operations.



**MULTI CONTROL**

**TAPE ◄ ►**
When TAPE is selected as the source, the button lights up.

**■ STOP**

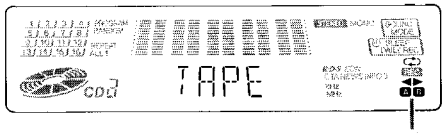
**REVERSE MODE**

**DECK A/B**

▲ Eject (Deck A)

▲ Eject (Deck B)

## Display




**Tape Direction Indicator on the Display**
The Tape Direction indicator tells you which direction the selected tape deck will use for playback.
During playback, the direction indicator flashes slowly.
During fast left or fast right, the indicator flashes quickly.
During Music Scan mode, the indicator flashes slowly and quickly alternately.

When the System is being used, the display shows other items as well. However, we have only shown the items described in this section.

: Reverse Mode indicator
: Tape Direction indicator
A B : DECK A, B indicator

The Cassette Deck allows you to play, record and dub audio tapes.
■ With Automatic Tape Detection, you can listen to Type I or II tapes without changing any settings.

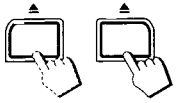
> The use of tapes longer than 120 minutes is not recommended, since characteristic deterioration may occur and these tapes easily jam in the pinch-rollers and the capstans.

TAPE CONTROL

**Entering the TAPE Operation Mode with the Remote Control**
Pressing TAPE CONTROL makes the Remote Control ready for the Cassette Deck operations.
Operate the Cassette Deck with ►, ■ and MULTI CONTROL.
The explanation provided in "Using the Cassette Deck" section assumes that the Remote Control has been put into Cassette Deck operation mode. When you use the Remote Control, press TAPE CONTROL first.



## Regular Play



When the power is already on, you can use this basic procedure:

**1. Press down ▲ for the deck you want to use.**

**2. When the cassette holder opens, put a cassette in, with the exposed part of the tape down, toward the base of the Unit.**
- If the cassette holder does not open, turn the power off, then back on and press down ▲ again.

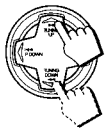
**3. Close the holder gently.**
When both Deck A and Deck B contain a tape, the last deck to have a tape inserted is selected.
To change the selected deck, press DECK A/B. When using the Remote Control, press TAPE A or TAPE B.

**4. Press TAPE ◄ ► on the Unit.**

***COMPU PLAY***
When the TAPE ◄ ► is pressed while the power is on standby, the power is automatically turned on.

When using the Remote Control, first press TAPE CONTROL followed by ►.
If the power is on standby, the power will automatically be turned on.
When "TAPE" appears on the display, the tape play starts toward the direction currently selected.

**To stop playing,** press ■ STOP on the Unit (or ■ on the Remote Control).
**To remove the tape,** stop the tape, and press down ▲.
**To change deck while playing a tape,** press TAPE ◄ ► after pressing DECK A/B on the Unit or press ► after pressing TAPE A or TAPE B on the Remote Control.
**To change the direction of a tape while it is playing,** press TAPE ◄ ► on the Unit or DIRECTION on the Remote Control.



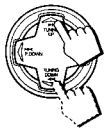
### Fast Left and Fast Right

■ While the tape is stopped, press TUNING DOWN ◄◄ on the MULTI CONTROL (or ◄◄ on the Remote Control) and the tape will wind rapidly to the left side of the cassette without playing.
■ While the tape is stopped, press ►► TUNING UP on the MULTI CONTROL (or ►► on the Remote Control) and the tape will wind rapidly to the right side of the cassette without playing.

**Note:** Deck A and Deck B cannot be used for playback at the same time.

## Music Scan

To find the beginning of a music track during play, use the Music Scan function. Music Scan searches for blank portions that usually separate selections, then plays the next selection.

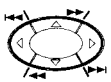


### Finding the Beginning of the Current Selection

**Press TUNING DOWN ◄◄ or ►► TUNING UP on the MULTI CONTROL (or ◄◄ or ►► on the Remote Control) during play.**

■ Make sure that you press TUNING DOWN ◄◄ or ►► TUNING UP on the MULTI CONTROL (or ◄◄ or ►► on the Remote Control) in the opposite direction to that in which the tape is playing. Searching stops at the beginning of the current selection, and the current selection starts automatically.

or



### Finding the Beginning of the Next Selection

**Press TUNING DOWN ◄◄ or ►► TUNING UP on the MULTI CONTROL (or ◄◄ or ►► on the Remote Control) during play.**

■ Make sure that you press TUNING DOWN ◄◄ or ►► TUNING UP on the MULTI CONTROL (or ◄◄ or ►► on the Remote Control) in the same direction as that in which the tape is playing. Searching stops at the beginning of the next selection, and the next selection starts automatically.

**Music Scan works by detecting a 4-second long blank at the beginning of each selection, so it will not work well if your tape has • • •**

- No blank at the beginning of a selection.
- Noise (often caused by much use or poor quality dubbing) which fills the blank with noise.
- Long, very soft passages or pauses in a selection. The scan will detect these as 4-second long blanks. If this happens, just scan again until you reach the selection you want.

## Reverse Mode

■ Use **Reverse Mode** to make the tape automatically reverse at the end of a side and start playing the other side.
Each time you press REVERSE MODE, the Reverse Mode turns on and off alternately.

**Reverse Mode ON**

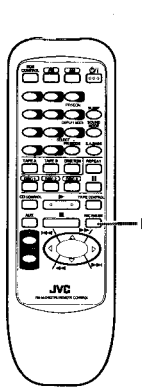
**Reverse Mode OFF**

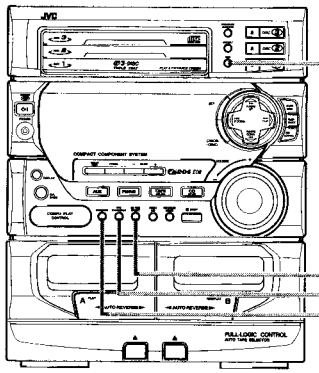
■ **Continuous Play:** With the Reverse Mode indicator on, when tape playback in the reverse (◄) direction finishes, the Unit always checks to see if a tape is in the other deck. If there is, it automatically starts playing. This Continuous Play function works regardless of which deck starts first.



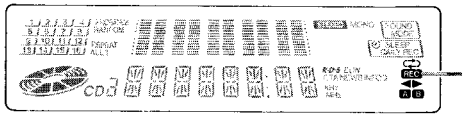
English

# Using the Cassette Deck (Recording)



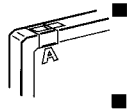




### Display




When the System is being used, the display shows other items as well. However, we have only shown the items described in this section.

### Things to Know before You Start Recording




■ **It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.**
■ When you want to record onto both sides of a tape, you can set Reverse mode on to do so. However, recording automatically stops after recording in the ◄ direction in Reverse mode. Therefore, make sure that the tape direction is ► when recording with Reverse mode on.
■ The recording level, which is the volume at which the new tape is being made, is automatically set correctly, so it is not affected by volume control. Thus, during recording you can adjust the sound you are actually listening to without affecting the recording level.
■ Two small tabs on the back of the cassette tape, one for side A and one for side B, can be removed to prevent accidental erasure or re-recording. To record on a cassette with the tabs removed, you must cover the holes with adhesive tape first.
However, when a Type II tape is used, only cover part of the hole as shown, since the other part of the hole is used to detect the tape type.
■ When recording, you can hear Sound Mode effects through the speakers or headphones. However, the sound is recorded without Sound Mode effects.
■ Type I and Type II tapes can be used for recording.

**Note:** At the start and end of cassette tapes, there is leader tape which cannot be recorded onto. Depending on the recording source, the first part of the recording may be missing because of the leader. When recording CDs or radio broadcasts, to get the beginning of the recording on the tape, first wind on the leader before beginning recording.

**CAUTION: If recordings you have made have excessive noise or static, the Unit may be too close to a TV which was on during recording. Either turn off the TV or increase the distance between the TV and the System.**

# Standard Recording

This is the basic method for recording any source. The System also has special ways for recording CD to tape, and tape to tape, which save your time and effort, as well as give you some special effects. However, when you need to add a selection to a tape you have made, or are combining selections from several sources on one tape, use the method described below; just substitute the source you want into this procedure, such as a CD or the Tuner. You can also record from auxiliary source with this procedure.

### Using the Unit

**1. Insert a blank or erasable tape into Deck B.**

**2. Press REVERSE MODE if you want to record on both sides of the tape.**
Reverse Mode comes on.
- When using Reverse Mode, insert the tape so that it will be recorded in the forward (►) direction.

**3. Check the recording direction for the tape.**
Check that the Tape Direction indicator is the same as that for the tape in the tape deck. If the directions are different, press ■ STOP after pressing TAPE ◄ ► to set the tape direction.
- When using the Reverse Mode to record both sides of a tape, check that the Tape Direction indicator is in the forward (►) direction. If the direction indicator is not in the forward (►) direction, press TAPE ◄ ► then press ■ STOP.

**4. Prepare the source, for example, by tuning in a radio station, loading CDs, or turning on connected equipment.**

**5. Press REC START/STOP.**
The REC indicator lights up and the System begins recording.

### Using the Remote Control

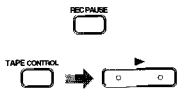
**1. Insert a blank or erasable tape into Deck B.**

**2. Press REVERSE MODE on the Unit if you want to record on both sides of the tape.**
Reverse Mode comes on.
- When using Reverse Mode, insert the tape so that it will be recorded in the forward (►) direction.

**3. Prepare the source, for example, by tuning in a radio station, loading CDs, or turning on connected equipment.**

**4. Press REC PAUSE.**
The REC indicator starts flashing.

**5. Press TAPE CONTROL then press ►.**
Recording starts.
The REC indicator stops flashing and remains lit.




### Notes for using Reverse Mode for recording

When recording with Reverse Mode on, the System automatically stops when it reaches the end of the reverse (◄) direction. To record on both sides of a tape, make sure that the recording direction for the tape inserted into Deck B is forward (►), and that the Tape Direction indicator is also forward (►), before you start recording.

### To pause at any time during the recording process

Press REC PAUSE on the Remote Control. Then press ► on the Remote Control or REC START/STOP on the Unit to restart recording.

### To stop at any time during the recording process

Press REC START/STOP on the Unit again, or press ■ on the Remote Control.



### Recording AM Station to Tape

When recording an AM broadcast, beats may be produced which are not heard when listening to the broadcast. In this case, press PROGRAM/RANDOM on the CD Player to eliminate the beats.

**1. Set to AM station and start recording.**

**2. Press PROGRAM/RANDOM repeatedly until the beats are eliminated.**
Each time you press the button, the indication on the display changes as follows:
→ CUT 2 → CUT 3 → CUT 4 →CUT 1 → (back to the beginning)

# CD Direct Recording

Everything on the CD goes onto the tape in the order it is on the CD, or according to the order you have set in a program.

**1. Press CD ►/II, then ■ STOP.**

**2. Prepare CDs. (See page 18.)**
Check that the CD Player is not playing a CD.

**3. Insert a blank or erasable cassette in Deck B.**
- When you want to record on both sides of a tape, press REVERSE MODE to turn on Reverse Mode. Check that the recording direction for the tape and the Tape Direction indicator are correct. (See page 27 "Notes for using Reverse Mode for recording".)

**4. Press CD REC START.**
"CD REC" appears on the display, the REC indicator lights up, and the System begins recording.
If the tape reaches its end while recording a song, the last song will be re-recorded at the beginning of the other side.
When the recording is finished, "CD REC FINISHED" scrolls by on the display. The CD Player and Cassette Deck stop.

**To stop at any time during the recording process,** press ■ STOP.

**Note:** When making Sleep Timer settings while doing CD Direct recording, set the time so that there is enough leeway to finish the recording before the power turns off. If the time is set to about the length of the CD, the power may turn off before recording finishes.

For CD Direct Recording using more than one disc, use a blank tape, If you use a prerecorded tape, prerecorded material may not be erased between newly-recorded tracks.

# Auto Edit Recording

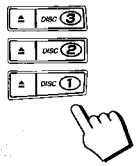
Using Auto Edit, you can record the CD tracks to fit the tape, so a selection is not cut off. Auto Edit is one of the best ways to copy all of a CD onto a tape. Auto Edit programs the CD tracks in numerical order. To prevent the end of the last track on the front side from being cut off, the last track on the front side is selected to fit on the remaining tape length.

**1. Press CD ►/II, then ■ STOP.**

**2. Prepare CDs. (See page 18.)**
Check that the CD Player is not playing a CD.

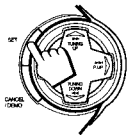
**3. Press EDIT on the Unit.**
"DISC-" appears on the display.



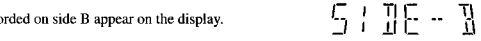




**4. Press DISC (1 to 3) for the disc you want to record.**
After "TAPE C - -", the optimum tape length for the disc appears on the display.

- You can select a different length of tape, depending on the actual size of the tape you are using, from eleven possibilities programmed into the Unit: 40, 46, 50, 54, 60, 64, 70, 74, 80, 84, 90. Select the tape length that corresponds to the length of tape you are using, or the nearest length to it, by adjusting |◄◄ P. DOWN or ►►| P. UP on the MULTI CONTROL.
  - If you select a tape length shorter than the total playing time of the CD, the last tracks on both sides of the tape will be faded out as the tape ends.



**5. Press SET.**
The tracks to be recorded on side B appear on the display.




- Each time you press the button, the tracks to be recorded on side A and side B appear on the display alternately.

**6. Insert a blank or erasable cassette in Deck B.**
When you want to record on both sides of a tape, press REVERSE MODE to turn Reverse mode on.

**7. Press CD REC START .**
The Unit plays the CD and starts recording. If the tape has not been rewound, the Unit rewinds the tape before starting to record the CD.

**To stop at any time while recording,** press ■ STOP or REC START/STOP on the Unit. If ■ STOP is pressed, the Cassette Deck will create a four-second blank space after the CD Player stops. If REC START/STOP is pressed, the CD Player and Cassette Deck will stop simultaneously. When ■ is pressed on the Remote Control, the stop time of the CD Player and Cassette Deck vary according to their mode (CD operation mode or Cassette Deck operation mode). If the Remote Control is in CD operation mode, the Cassette Deck will stop four second after the CD Player stops. If the Remote Control is in Cassette Deck operation mode, the CD Player and Cassette Deck will stop simultaneously.

**To cancel Auto Edit,** press PROGRAM/ RANDOM while the CD Player is stopped or press ▲ for the disc number being recorded.

**Note:** When making Sleep timer settings while doing Auto Edit recording, set the time so that there is enough leeway to finish the recording before the power goes out. If the time is set to about the length of the CD, the power may go out before recording finishes.

## Tape to Tape Recording (Dubbing)

Recording from one tape to another is called dubbing.
- When dubbing tapes, make sure that the playback direction of Deck A and Deck B are the same.
- When you record both sides of a tape, press REVERSE MODE to turn on the Reverse Mode.
- It is preferable that the type of tape (Type I or Type II) you record from be the same as the type you record onto.

### How to Use DUBBING

**1. Press TAPE ◄◄ ►►, then ■ STOP.**

**2. Insert the source cassette you want to copy from into Deck A for playback.**
Insert the cassette so that it will be played in the forward (►) direction.

**3. Insert the blank or erasable cassette you want to copy onto into Deck B for recording.**
Insert the cassette so that it will be recorded in the forward (►) direction.

**4. Press DUBBING.**
Deck A and Deck B start simultaneously.

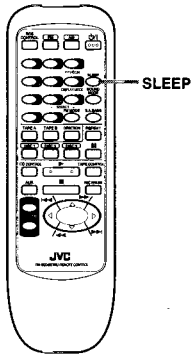
**To stop dubbing,** press ■ STOP.

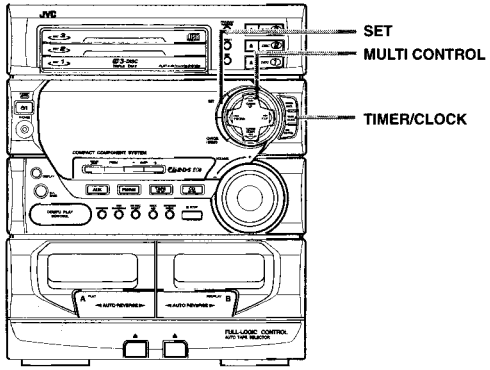
- When dubbing, you can hear Sound Mode effects through the speakers or headphones. However, the sound is dubbed without Sound Mode effects.



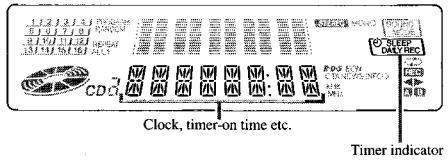
English

## Using the Timer




### Display




When the System is being used, the display shows other items as well. However, we have only shown the items described in this section.

The timers let you control recording and listening functions automatically.
Three types of timers are available:
- **Daily Timer** — Use this timer to set wake up everyday to music from any source, instead of an alarm clock.
- **Recording Timer** — Unattended recording of radio broadcasts. You can set the starting time and stopping time of the recording.
- **Sleep Timer** — Fall asleep and have your Unit turn off automatically after a certain length of time.

**Note:** When operating the Daily Timer and Recording Timer, always set the clock first. If the clock is not set, the Daily Timer and Recording Timer functions cannot be used. For details, refer to "Setting the Clock" on page 8.

# Setting the Daily Timer

With this timer you can wake up to music from a CD, tape, your favourite radio program.
■ You can set the Daily Timer whether the Unit is on or off.

### Procedure For Setting the Daily Timer

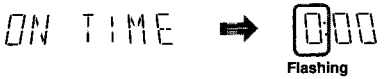
**1. Press TIMER/CLOCK so that "DAILY" appears on the display.**
The DAILY indicator flashes on the display.



- Each time you press the button, the timer setting indication changes as follows:
  **DAILY** → **ON TIME** (flashes) → **REC** → **ON TIME** (flashes) → Clock setting → Cancelled (current source) → (back to the beginning)

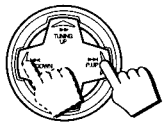
**Note:** If the clock has not been set, even if TIMER/CLOCK is pressed you cannot select the Daily Timer.

**2. Press TIMER/CLOCK again.**
After "ON TIME" flashes for 2 seconds, it switches to the on-time setting display.



Flashing

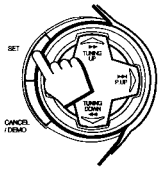
**3. Set the time you want the Unit to turn on.**
Press ⏮ P. DOWN or ⏭ P. UP on the MULTI CONTROL to adjust the hours and press SET.
Then press ⏮ P. DOWN or ⏭ P. UP to adjust the minutes and press SET.





- After adjusting the minutes and pressing SET, "OFF TIME" flashes for two seconds and on-time setting is completed.

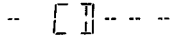
**4. Set the time you want the Unit to turn off.**
Press ⏮ P. DOWN or ⏭ P. UP on the MULTI CONTROL to adjust the hours and press SET.
Then press ⏮ P. DOWN or ⏭ P. UP to adjust the minutes and press SET.



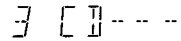
- When the off-time has been set, the indication on the display changes to the source selection.
- To select the source to be played, press ⏮ P. DOWN or ⏭ P. UP on the MULTI CONTROL until your choice is shown.

**5. Select the source you want to listen to.**
**To use a CD as the source:**

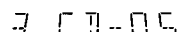
1. **Press ⏮ P. DOWN or ⏭ P. UP on the MULTI CONTROL repeatedly until "- CD - - -" flashes on the display and press SET.**



2. **Press ⏮ P. DOWN or ⏭ P. UP on the MULTI CONTROL repeatedly to select the CD disc number to be played and press SET .**
   If you press SET without selecting a disc, the last disc played by the Unit will be used.



3. **Press ⏮ P. DOWN or ⏭ P. UP on the MULTI CONTROL repeatedly to select the CD track number to be played and press SET.**
   If you press SET without selecting a track, playback will start from the first track on the CD.

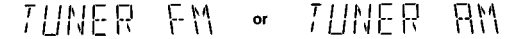






**To use the Tuner as the source**
**(Possible only after presetting stations.):**

1. **To listen to FM, press ⏮ P. DOWN or ⏭ P. UP on the MULTI CONTROL repeatedly until "TUNER FM" flashes and press SET.**
   **To listen to AM, press ⏮ P. DOWN or ⏭ P. UP on the MULTI CONTROL repeatedly until "TUNER AM" flashes and press SET.**



2. **Press ⏮ P. DOWN or ⏭ P. UP on the MULTI CONTROL repeatedly to select the station to be listened to as a preset channel and press SET.**



**To use a Cassette Deck as the source:**
**Press ⏮ P. DOWN or ⏭ P. UP on the MULTI CONTROL repeatedly until "TAPE" flashes on the display and press SET.**



**6. Setting the Volume Level.**
Press ⏮ P. DOWN or ⏭ P. UP on the MULTI CONTROL to adjust the volume.

**VOL - 10:** Sets the volume level to 10.
**VOL - 15:** Sets the volume level to 15.
**VOL - 20:** Sets the volume level to 20.
**VOL - - -:** Sets the volume to the last volume setting used.

**7. Press SET.**
The DAILY indicator stops flashing and remains lit. The on-time, off-time, playback source (including the disc number and track number if a CD source is selected), and volume level appears on the display Turn the power off if you made the timer settings with the power turned on.

■ A few seconds before the on-time, the Unit automatically turns on the power. When the on-time comes, playback starts using the selected source. A few seconds before the off-time, "OFF" flashes on the display. When the off-time comes, the power is automatically turned off.
■ If a button is pressed when the Daily Timer is operating, playback continues but the timer is cancelled.

### Before turning off the Unit

■ If the source is a CD, make sure that there is a CD in the selected disc number.
■ If the source is a tape:
- The tape in the deck corresponding to the Deck indicator mark is played. Make sure that there is a tape in the selected Cassette Deck.
- Check that the tape direction is correct. This is important especially when Reverse Mode is off.
- Set Reverse Mode on if you want to play both sides of the tape.

■ Select the Sound Mode if you want to listen using a Sound Mode effect.

### To change the Daily Timer setting

To change the settings for the Daily Timer, repeat the setting procedure from the beginning.

## Turning the Daily Timer On and Off

Once the Daily Timer has been set it will be activated at the same time every day until the setting is turned off.
**To turn the Daily Timer off,** press TIMER/CLOCK until "DAILY" appears on the display. Press CANCEL/DEMO. "OFF"appears on the display and the DAILY indicator goes out.
**To turn the Daily Timer on again,** press TIMER/CLOCK until "DAILY" appears on the display, then press SET. The Timer on-time, off-time, payback source (including the disc number and track number if a CD source is selected), and volume level appear on the display, and the DAILY indicator lights up.

**CAUTION: If the Unit is unplugged, or a power failure occurs, the timer setting will be erased in a few days. If the settings are erased in this way, reset the timer settings.**

English

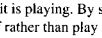
## Setting the Recording Timer

With the Recording Timer you can make a tape of a radio broadcast automatically whether or not you are home. For the timer to work correctly, you need to make sure of the following in addition to setting the time for the Tuner and Cassette Deck to come on:

- You can set the Recording Timer whether the Unit is on or off.
- The tape you want to record onto must be in Deck B.

### Procedure for Setting the Recording Timer

**1. Press TIMER/CLOCK repeatedly until "REC" appears on the display.**
The REC indicator flashes on the display.

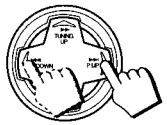


- Each time you press the button, the timer setting indication changes as follows:
  **DAILY → ON TIME** (flashes) → **REC → ON TIME** (flashes) → Clock setting → Cancelled (current source) → (back to the beginning)

**Note:** If the clock has not been set, even if TIMER/CLOCK is pressed you cannot select the Recording Timer.

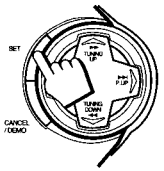
**2. Press TIMER/CLOCK again.**
After "ON TIME" flashes for 2 seconds, it switches to the time setting display.

**3. Set the time you want the Unit to be turned on.**
Press |◄◄ P. DOWN or ►►| P. UP on the MULTI CONTROL to adjust the hours and press SET. Then press |◄◄ P. DOWN or ►►| P. UP to adjust the minutes and press SET .



**4. Set the time you want the Unit to be turned off.**
Press |◄◄ P. DOWN or ►►| P. UP on the MULTI CONTROL to adjust the hours and press SET. Then press |◄◄ P. DOWN or ►►| P. UP to adjust the minutes and press SET.

**5. Select the Recording band.**
Press |◄◄ P. DOWN or ►►| P. UP on the MULTI CONTROL to select "TUNER FM" or "TUNER AM" and press SET.



**6. Select the preset channel for the station to be recorded.**
Press |◄◄ P. DOWN or ►►| P. UP on the MULTI CONTROL to select.

**7. Press SET.**
The REC indicator stops flashing and remains lit. The on-time, off-time, and Recording band ("TUNER FM" or "TUNER AM") appear on the display.
Turn the power off if you made the timer settings with the power turned on.

- A few seconds before the on-time for the recording, the Unit automatically turns on the power. When the on-time comes, recording starts using the selected source. A few seconds before the off-time, "OFF" flashes on the display. When the off-time comes, the power is automatically turned off.

### Before the timer starts

- Check that tape direction is correct. This is important especially when Reverse Mode is off.
- Set Reverse Mode on if you want to record on both sides of the tape.
- The volume level is automatically set to 0 when Recording Timer starts.

**It is very easy, and can be very disappointing, to forget to put in a tape, or to accidentally leave a tape in Deck B you don't want recorded over. Although this happens to almost everyone at one time or another, we hope it won't happen to you!**

### To change the Recording Timer setting

Repeat the setting procedure from the beginning.



### Turning the Recording Timer On and Off

Once the Recording Timer has been used, the setting is maintained but the Timer is set to off.
**To turn the Recording Timer off before the timer starts,** press TIMER/CLOCK repeatedly until "REC" appears on the display, then press CANCEL/DEMO. "OFF" appears on the display and the REC indicator goes out.
**To record at the same time again,** press TIMER/CLOCK repeatedly until "REC" appears on the display, then press SET. The on-time, off-time, and Recording band ("TUNER FM" or "TUNER AM") appear on the display, and the REC indicator lights up.

**CAUTION: If the Unit is unplugged, or a power failure occurs, the timer setting will be erased in a few days. If the settings are erased in this way, reset the timer settings.**

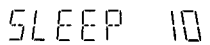
## Setting the Sleep Timer

Use the Sleep Timer to turn the Unit off after a certain number of minutes when it is playing. By setting this timer, you can fall asleep to music and know your Unit will turn off by itself rather than play all night.

- You can only set the Sleep Timer when the Unit is on and a source is playing.

### To set the SLEEP Timer, follow this procedure:

**1. With the Unit on and a source playing, press SLEEP on the Remote Control.**
"SLEEP" appears on the display.



**2. Set the length of time you want the source to play before shutting off.**

- Each time you press this button while the "SLEEP" indicator is flashing, it changes the number of minutes shown on the display in this sequence:

  → **10** → **20** → **30** → **60** → **90** → **120** → Cancelled → (back to the beginning)

When the number of minutes you want shows on the display, just wait 5 seconds until the indicator stops flashing, and remains lit.
The Unit is now set to turn off after the number of minutes you set.

### To change the Sleep Timer setting

Press SLEEP until the number of minutes you want appears on the display.

### To cancel the Sleep Timer setting

Press SLEEP until the SLEEP indicator goes out on the display.
Turning off the Unit also cancels the Sleep Timer.

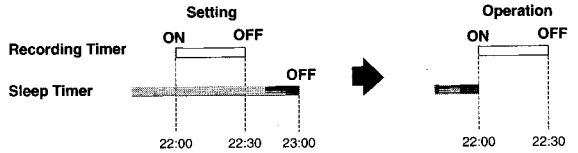
## Timer Priority

Since each timer can be set independently, you may wonder what happens if the settings overlap. Here are the priorities for each timer:

■ The Recording Timer always has priority. This means that:
- If another timer is set to come on during a time when the Recording Timer is operating, the other timer just will not come on at all, so you will always get the entire program on tape.
- If the Recording Timer is set to come on while another timer is operating, the other timer will shut off 10 seconds before the Recording Timer is set to turn on, and the Recording Timer will then take over.

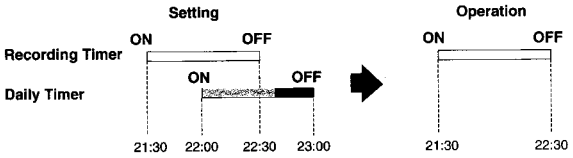
■ If the Sleep Timer is set while the Daily Timer is operating, the Sleep Timer will take over. However, if the Daily Timer is set to come while the Sleep Timer is operating, the Daily Timer will take over.

**Example 1**




The Recording Timer has priority.

**Example 2**




The Recording Timer has priority.





## Care and Maintenance

### Compact Discs

Handle your compact discs, cassette tapes, and Cassette Deck carefully, and they will last a long time.

- Remove the CD from the case by holding it at the edges while pressing the centre hole lightly.
- Do not touch the shiny surface of the CD, or bend the CD.

- Put the CD back in its case after use to prevent warping.
- Be careful not to scratch the surface of the CD when placing it back in the case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.

- A dirty CD may not play correctly. If a CD does become dirty, wipe it with a soft cloth in a straight line from centre to edge.

**CAUTION: Do not use any solvent (for example, conventional record cleaner, spray thinner, benzine, etc.) to clean a CD.**

### Moisture Condensation

Moisture may condense on the lens inside the Unit in the following cases:
- After starting the heating in the room.
- In a damp room.
- If the Unit is brought directly from a cold to a warm place.

Should this occur, the Unit may malfunction. In this case, leave the Unit turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.

### General Notes

In general, you will have the best performance by keeping your tapes, CDs, and the mechanism clean.
- Store tapes and CDs in their cases, and keep them in cabinets or on shelves.
- Keep the Cassette Deck's tape doors and the CD trays closed when not in use.

### Cassette Tapes

- If the tape is loose in its cassette, take up the slack by inserting a pencil in one of the reels and rotating.
- If the tape is loose, it may get stretched, cut, or caught in the cassette.

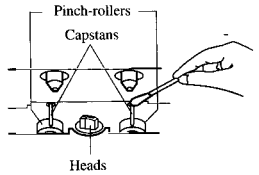
- Do not touch the tape surface.

- Do not store the tape:
  - In dusty places
  - In direct sunlight or heat
  - In moist areas
  - On a TV or speaker
  - Near a magnet

### Cassette Deck

- If the heads, capstans, and pinch-rollers of the Cassette Deck become dirty, the following will occur:
  - Loss of sound quality
  - Discontinuous sound
  - Fading
  - Incomplete erasure
  - Difficulty recording

- Clean the heads, capstans, and pinch-rollers using a cotton swab moistened with alcohol.




- If the heads become magnetized, the Unit will produce noise or lose high frequencies.

- To demagnetize the heads, turn off the Unit, and use a head demagnetizer (available at electronics and record shops).

# Troubleshooting

- If you are having a problem with your System, check this list for a possible solution before calling for service.
- If you cannot solve the problem from the hints given here, or the Unit has been physically damaged, call a qualified person, such as your dealer, for service.

| Symptom | Possible Cause | Action |
|---|---|---|
| No sound is heard. | Connections are incorrect, or loose. | Check all connections and make corrections. (See pages 4 - 5.) |
| Unable to record. | Cassette record protect tabs are removed. | Cover holes on back edge of cassette with tape. |
| Poor radio reception | • The antenna is disconnected.<br>• The AM Loop Antenna is too close to the Unit.<br>• The FM Wire Antenna is not properly extended and positioned. | • Reconnect the antenna securely.<br>• Change the position and direction of the AM Loop Antenna.<br>• Extend FM Wire Antenna to the best reception position. |
| The CD skips. | The CD is dirty or scratched. | Clean or replace the CD. |
| Unable to operate the Remote Control. | • The path between the Remote Control and the sensor on the Unit is blocked.<br>• The batteries have lost their charge. | • Remove the obstruction.<br>• Replace the batteries. |
| The CD tray cannot be opened. | The main AC power cord is not plugged in. | Plug in the AC power plug. |
| The CD does not play. | The CD is upside down. | Put the CD in with the label side up. |
| Operations are disabled. | The built-in microprocessor has malfunctioned due to external electrical interference. | Unplug the Unit then plug it back in. |
| The cassette door cannot be opened. | During tape playing, the power cord was unplugged. | Plug in the power cord, press ⏻/I, and then press ⏏. |



English

# Specifications

### Amplifier Section

| | |
|---|---|
| Output Power (IEC 268-3/DIN) | 47 watts per channel, min. RMS, both channels driven into 6 ohms at 1 kHz with no more than 0.9% total harmonic distortion. |
| Input Sensitivity/Impedance (1 kHz) | |
| AUX | 300 mV/50 kohms |
| Speaker terminals | 6 - 16 ohms |

### Cassette Deck Section

| | |
|---|---|
| Frequency Response | |
| Type II ($CrO_2$) : | 50 - 14,000 Hz |
| Type I (NORMAL) : | 50 - 14,000 Hz |
| Wow And Flutter | 0.15% (WRMS) |

### CD Automatic Changer Section

| | |
|---|---|
| CD Capacity | 3 discs |
| Dynamic Range | 85 dB |
| Signal-To-Noise Ratio | 90 dB |
| Wow And Flutter | Unmeasurable |

### Tuner Section

| | |
|---|---|
| FM Tuner | |
| Tuning Range | 87.5 - 108.0 MHz |
| AM Tuner | |
| Tuning Range | |
| MW | 522 - 1,629 kHz |
| LW | 144 - 288 kHz |

| | |
|---|---|
| Dimensions | 265 × 315 × 340 mm (W/H/D)<br>(10-7/16 × 12-7/16 × 13-7/16 inches) |
| Mass | 7.8 kg (17.2 lbs) |

### Accessories

AM (MW/LW) Loop Antenna (1)
Remote Control (1)
Batteries R6P (SUM-3)/AA (15F) (2)
FM Wire Antenna (1)

### Power Specifications

| | |
|---|---|
| Power Requirements | AC 230 V ∿, 50 Hz |
| Power Consumption | 125 watts<br>10 watts (in standby mode) |

*Design and specifications are subject to change without notice.*

0498TNMNAT.JEM

JVC

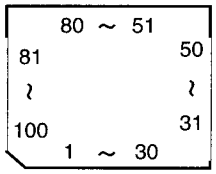
VICTOR COMPANY OF JAPAN, LIMITED

EN, GE, FR, NL, SP, IT

# Description of Major ICs

## ■UPD780206GF-039 (IC801) : System control micon

### 1.Terminal Layout

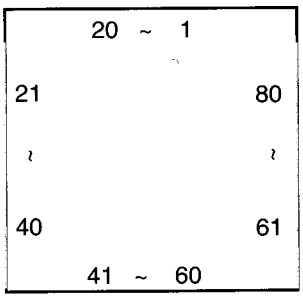



### 2.Pin Function

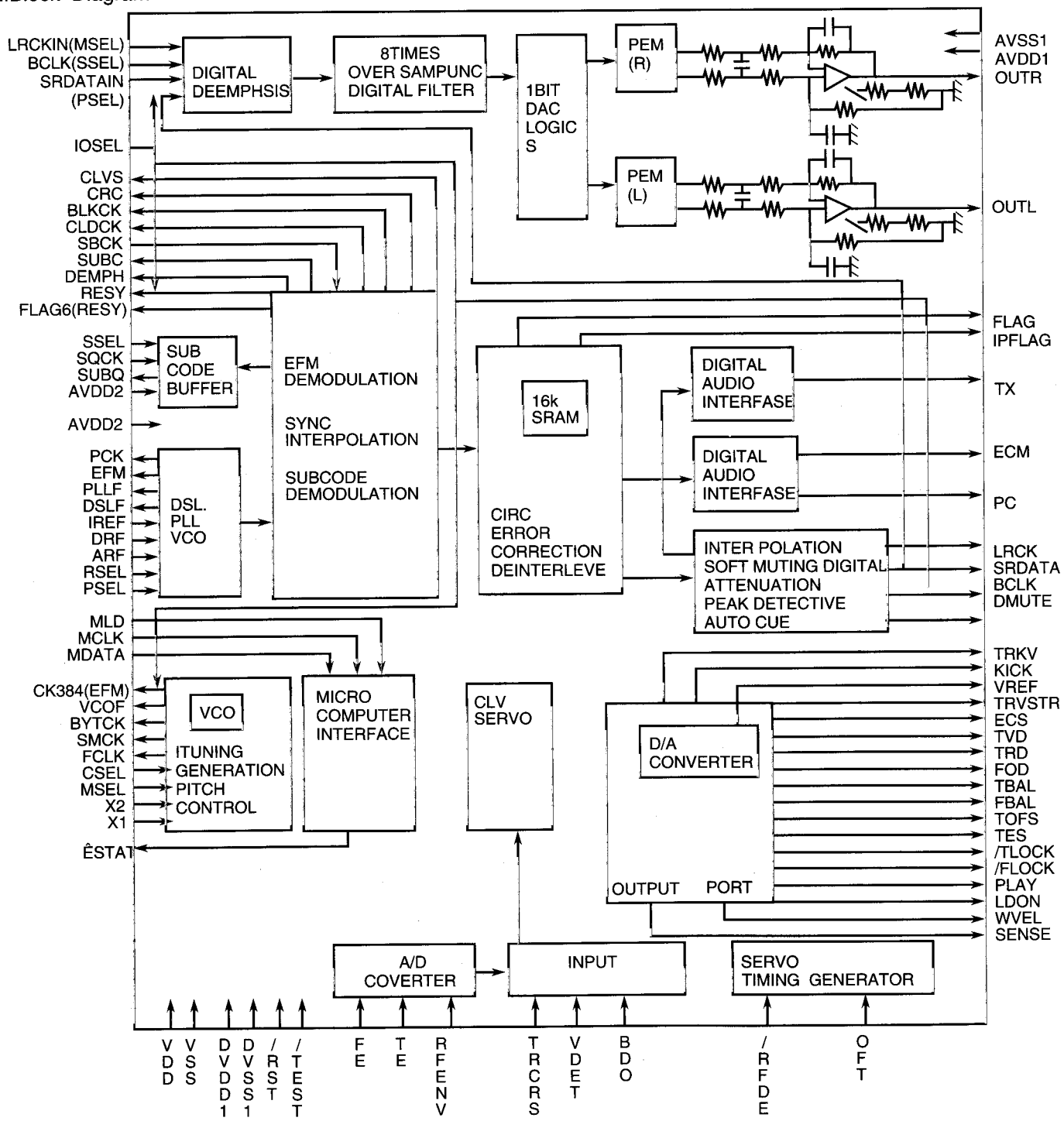
| No. | Symbol | I/O | Function | No. | Symbol | I/O | Function |
|---|---|---|---|---|---|---|---|
| 1 | VDD | - | Power supply. | 33 | SPIDTI | I | SPI DATA analog signal input. |
| 2 | SPICSB | O | SPI IC chip select signal output. | 34 | AVDD | - | Power supply for AD converter. |
| 3 | SPIA | O | SPI IC control-A. | 35 | AVREF | - | A/D REF voltage. |
| 4 | SPIB | O | SPI IC control-B. | 36 | $\overline{\text{REMIN}}$ | I | Remote control signal input. |
| 5 | PHOTOA | I | Tape A mechanism running detection. | 37 | $\overline{\text{MPX}}$ | I | MPX IN (Stereo INDI.) |
| 6 | PHOTOB | I | Tape B mechanism running detection. | 38 | $\overline{\text{RDCK}}$ | I | RDS clock input. |
| 7 | MSI | I | Music scan input. | | | | |
| 8 | SPIC | O | SPI IC control-C | 39 | $\overline{\text{PRT}}$ | I | Protector input. |
| 9 | BEAT | O | Beat cut output (TUNER). | 40 | VSS | - | Connect to GND. |
| 10 | $\overline{\text{RESET}}$ | I | System reset signal. | 41 | $\overline{\text{INH}}$ | I | Inhibit signal input (Back up). |
| 11 | X2 | O | Main clock 4.19MHz. | 42 | HPHONE | I | Headphone input. |
| 12 | X1 | I | Main clock 4.19MHz. | 43 | RSDA | I/O | RDS data input. |
| 13 | | - | Non connect. | | | | |
| 14 | XT2 | - | Sub clock 32.76kHz. | 44 | PROSACK | O | Prologic/SA Bass/EXT IC clock. |
| 15 | XT1 | - | Sub clock 32.76kHz. | 45 | PROSADA | O | Prologic/SA Bass/EXT IC data. |
| 16 | VDD | - | Power supply. | 46 | VDD | - | Power supply. |
| 17 | CK | O | Serial clock signal output to IC304 IC303,IC802,IC2. | 47 | FVOLDA | O | Front VOL data output to IC401. |
| | | | | 48 | VOLCK | O | Clock signal output to IC401. |
| 18 | DATA | I/O | Serial data signal output to IC304 IC303,IC802,IC2. | 49 | RVOLDA | O | Rear VOL data output. |
| | | | | 50 | | - | Not use. |
| 19 | POUT | O | Power ON/Standby. | 51 | SLCCE | O | Chipenable signal output to IC303,IC304. |
| 20 | VC3RESET | O | Reset signal output to IC251. | | | | |
| 21 | MRDY | I | Ready signal from IC251. | 52 | TUCE | O | Chip enable signal to Tuner (IC2). |
| 22 | KCLK | I | Clock signal from IC251. | 53 | PROCE | O | Chip enable signal to prologic. |
| 23 | KCMND | O | Command to IC251. | 54 | SABCE | O | Chip enable signal to SA Bass. |
| 24 | MSTAT | I | VC3 MSTAT. | 55 | | - | Not use. |
| 25 | AVSS | - | Connect to GND. | 56 | DSPCE | O | Chip enable signal to DSP. |
| 26 | KEY1 | I | Key matrix signal input. | 57 | EXTCE | O | Chip enable signal to EXT(IC802). |
| 27 | KEY2 | I | Key matrix signal input. | 58 | SMUTE | O | System mute output. |
| 28 | KEY3 | I | Key matrix signal input. | 59 | VOL+ | I | Rotary encoder VOL + |
| 29 | KEY4 | I | Key matrix signal input. | 60 | VOL- | I | Rotary encoder VOL - |
| 30 | SLCKEY1 | I | SLC Key input 1 | 61~78 | S1~S18 | O | FL segmant control signal. |
| 31 | SLCKEY2 | I | SLC Key input 2 | 79 | VLOAD | - | Power supply. |
| 32 | SLCKEY3 | I | SLC Key input 3 | 80~91 | S19~S30 | O | FL segment control signal. |
| | | | | 92~100 | G9~G1 | O | FL grid control signal. |

## ■ MN35510(IC651):DIGITAL SERVO&DIGITAL SIGNAL PROCESSER

1. Terminal Layout




2.Block Diagram



## 3. Description

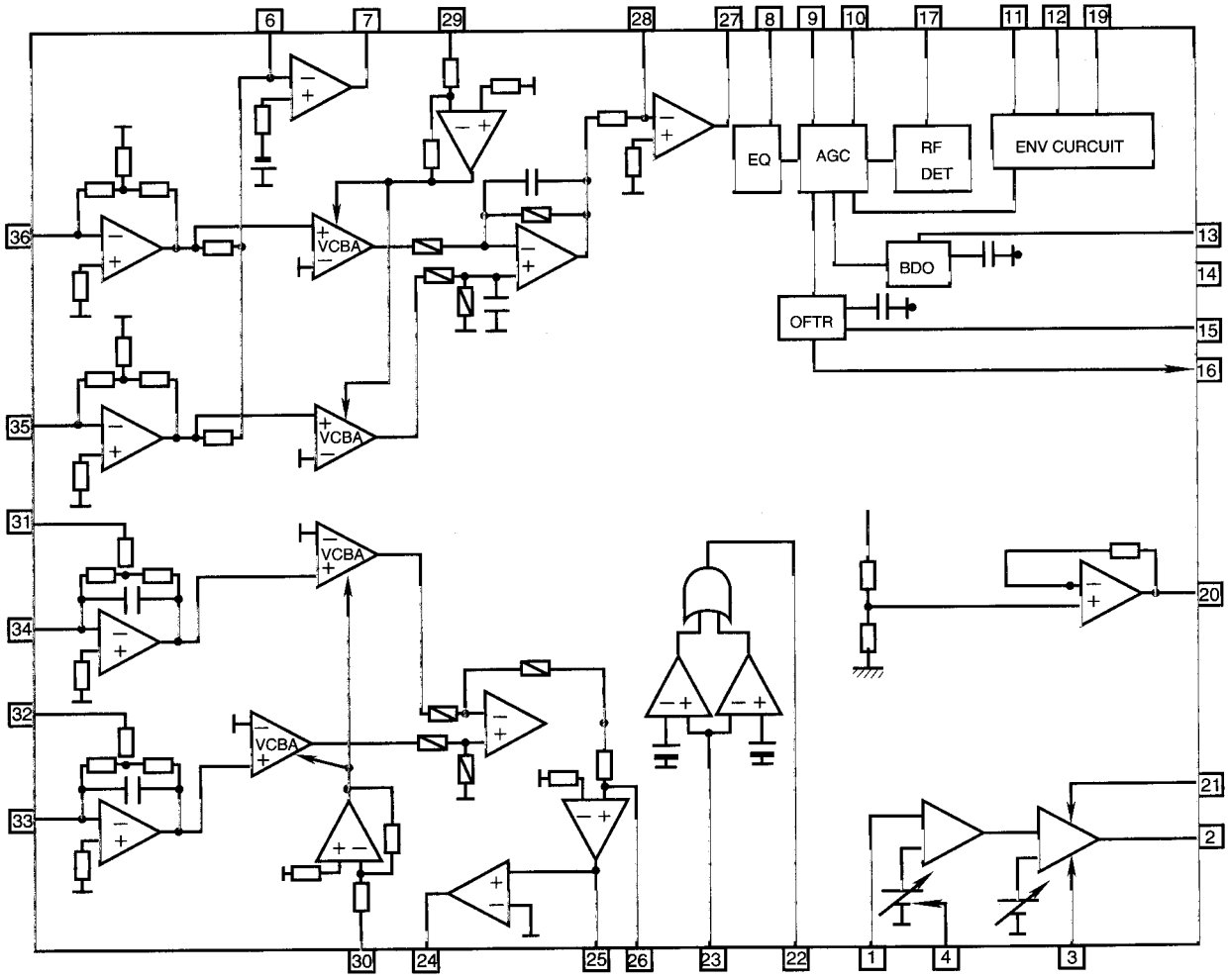
| Pin No. | symbol | I/O | Description | Pin No. | symbol | I/O | Description |
|---|---|---|---|---|---|---|---|
| 1 | BCLK | O | Not used | 41 | TES | O | Tracking error shunt signal output(H:shunt) |
| 2 | LRCK | O | Not used | 42 | PLAY | – | Not used |
| 3 | SRDATA | O | Not used | 43 | WVEL | – | Not used |
| 4 | DVDD1 | – | Power supply (Digital) | 44 | ARF | I | RF signal input |
| 5 | DVSS1 | – | Connected to GND | 45 | IREF | I | Reference current input pin |
| 6 | TX | O | Digital audio interface output | 46 | DRF | I | Bias pin for DSL |
| 7 | MCLK | I | μcom command clock signal input (Data is latched at signal's rising point) | 47 | DSLF | I/O | Loop filter pin for DSL |
| 8 | MDATA | I | μcom command data input | 48 | PLLF | I/O | Loop filter pin for PLL |
| 9 | MLD | I | μcom command load signal input | 49 | VCOF | – | Not used |
| 10 | SENSE | O | Sence signal output | 50 | AVDD2 | – | Power supply(Analog) |
| 11 | FLOCK | O | Focus lock signal output Active :Low | 51 | AVSS2 | – | Connected to GND(Analog) |
| 12 | TLOCK | O | Tracking lock signal output Active :Low | 52 | EFM | – | Not used |
| 13 | BLKCK | O | sub-code·block·clock signal output | 53 | PCK | – | Not used |
| 14 | SQCK | I | Outside clock for sub-code Q resister input | 54 | PDO | – | Not used |
| 15 | SUBQ | O | Sub-code Q -code output | 55 | SUBC | – | Not used |
| 16 | DMUTE | – | Connected to GND | 56 | SBCK | – | Not used |
| 17 | STATUS | O | Status signal (CRC,CUE,CLVS,TTSTOP,ECLV,SQOK) | 57 | VSS | – | Connected to GND(for X'tal oscillation circuit) |
| 18 | RST | I | Reset signal input (L:Reset) | 58 | XI | I | Input of 16.9344MHz X'tal oscillation circuit |
| 19 | SMCK | – | Not used | 59 | X2 | O | Output of X'tal oscillation circuit |
| 20 | PMCK | – | Not used | 60 | VDD | – | Power supply(for X'tal cscillation circuit) |
| 21 | TRV | O | Traverse enforced output | 61 | BYTCK | – | Not used |
| 22 | TVD | O | Traverse drive output | 62 | CLDCK | – | Not used |
| 23 | PC | – | Not used | 63 | FLAG | – | Not used |
| 24 | ECM | O | Spindle motor drive signal (Enforced mode output) 3-State | 64 | IPPLAG | – | Not used |
| 25 | ECS | O | Spindle motor drive signal (Servo error signal output) | 65 | FLAG | – | Not used |
| 26 | KICK | O | Kick pulse output | 66 | CLVS | – | Not used |
| 27 | TRD | O | Tracking drive output | 67 | CRC | – | Not used |
| 28 | FOD | O | Focus drive output | 68 | DEMPH | | Not used |
| 29 | VREF | I | Reference voltage input pin for D/A output block (TVD,FOD,FBA,TBAL) | 69 | RESY | – | Not used |
| 30 | FBAL | O | Focus Balance adjust signal output | 70 | IOSEL | – | pull up |
| 31 | TBAL | O | Tracking Balance adjust signal output | 71 | TEST | – | pull up |
| 32 | FE | I | Focus error signal input(Analog input) | 72 | AVDD1 | – | Power supply(Digital) |
| 33 | TE | I | Tracking error signal input(Analog input) | 73 | OUT L | O | Lch audio output |
| 34 | RF ENV | I | RF envelope signal input(Analog input) | 74 | AVSS1 | – | Connected to GND |
| 35 | VDET | I | Vibration detect signal input(H:detect) | 75 | OUT R | O | Rch audio output |
| 36 | OFT | I | Off track signal input(H:off track) | 76 | RSEL | – | pull up |
| 37 | TRCRS | I | Track cross signal input | 77 | CSEL | – | Connected to GND |
| 38 | RFDET | I | RF detect signal input(L:detect) | 78 | PSEL | – | Connected to GND |
| 39 | BDO | I | BDO input pin(L:detect) | 79 | MSEL | – | Connected to GND |
| 40 | LDON | O | Laser ON signal output(H:on) | 80 | SSEL | – | Pull up |

## ■ AN8806SB(IC601):RF&Servo AMP

### 1.Treminal Layout

| | | | |
|---|---|---|---|
| PD | 1 | 36 | PDAC |
| LD | 2 | 35 | PDBD |
| LDON | 3 | 34 | PDF |
| LDP | 4 | 33 | PDE |
| VCC | 5 | 32 | PDER |
| RF- | 6 | 31 | PDFR |
| RF OUT | 7 | 30 | TBAL |
| RF IN | 8 | 29 | FBAL |
| C.AGC | 9 | 28 | EF- |
| ARF | 10 | 27 | EF OUT |
| C.ENV | 11 | 26 | TE- |
| C.EA | 12 | 25 | TE OUT |
| CS BDO | 13 | 24 | CROSS |
| BDO | 14 | 23 | TE BPF |
| CS BRT | 15 | 22 | VDET |
| OFTR | 16 | 21 | LD OFF |
| /NRFDET | 17 | 20 | VREF |
| GND | 18 | 19 | ENV |

### 2.Block Diagram

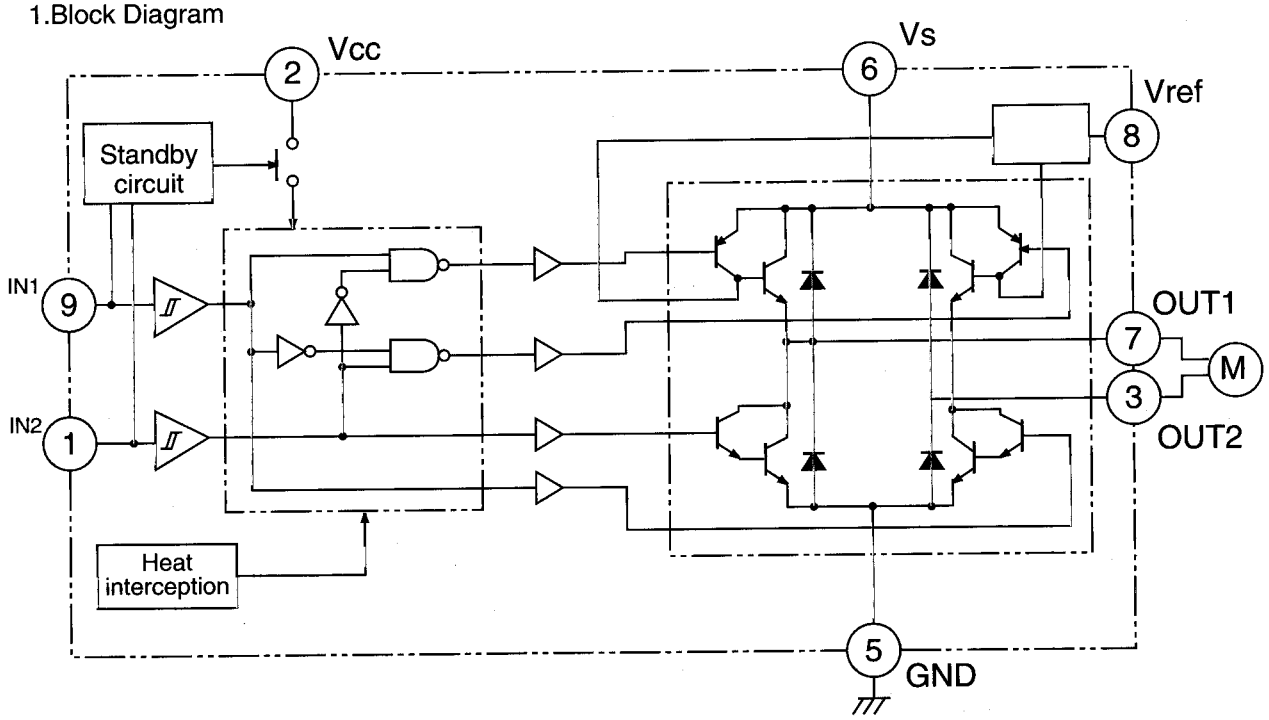


3. Functions

| Pin No. | Symbol | I/O | Functions and operations |
|---|---|---|---|
| 1 | PD | I | APC amp input terminal |
| 2 | LD | O | APC amp output terminal |
| 3 | LD ON | I | APC ON/OFF control terminal |
| 4 | LDP | -- | Connect to ground |
| 5 | VCC | -- | Power supply |
| 6 | RF- | I | Inverse input pin for RF amp |
| 7 | RF OUT | O | RFamp output |
| 8 | RF IN | I | RF input |
| 9 | C.AGC | I/O | Connecting pin of AGC loop filter |
| 10 | ARF | O | RF output |
| 11 | C.ENV | I/O | A capacitor is connected to this terminal to detect the envelope of RF signal |
| 12 | C.EA | I/O | A capacitor is connected to this terminal to detect the envelope of RF signal |
| 13 | CS BDO | I/O | A capacitor is connected to detect the lower envelope of RF signal |
| 14 | BDO | O | BDO output pin |
| 15 | CS BRT | I/O | A capacitor is connected to detect the lower envelope of RF signal |
| 16 | OFTR | O | Of-track status signal output |
| 17 | /NRFDET | O | RF detection signal output |
| 18 | GND | -- | Ground |
| 19 | ENV | O | Envelope output |
| 20 | VREF | O | Reference voltage output |
| 21 | LD OFF | -- | Connect to ground |
| 22 | VDET | O | Vibration detection signal output |
| 23 | TE BPF | I | Input pin of tracking error through BPF |
| 24 | CROSS | O | Tracking error cross output |
| 25 | TE OUT | O | Tracking error signal output |
| 26 | TE- | I | Inverse input pin for tracking error amp |
| 27 | FE OUT | O | Output pin of focus error |
| 28 | FE- | I | Inverse input pin for focus error amp |
| 29 | FBAL | I | Focus balance control |
| 30 | TBAL | I | Tracking balance control |
| 31 | PDFR | I/O | F I-V amp gain control |
| 32 | PDER | I/O | E I-V amp gain control |
| 33 | PDF | I | I-V amp input |
| 34 | PDE | I | I-V amp input |
| 35 | PD BD | I | I-V amp input |
| 36 | PD AC | I | I-V amp input |

## ■TA8409S(IC851.852):CD Changer Motor Driver

1.Block Diagram

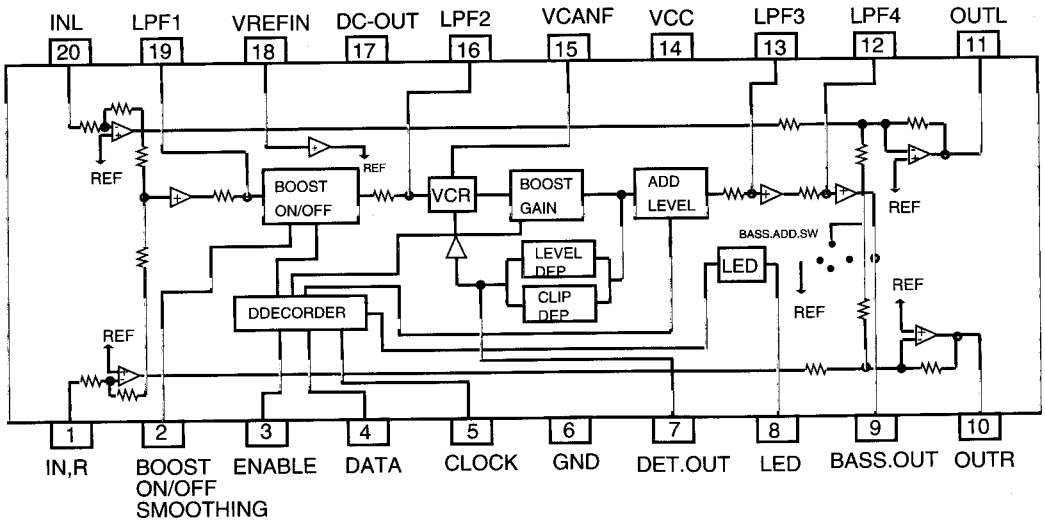



2.Function

| INPUT | | OUTPUT | | MODE |
|---|---|---|---|---|
| IN1 | IN2 | OUT1 | OUT2 | MOTOR |
| 0 | 0 | ∞ | ∞ | STOP |
| 1 | 0 | H | L | CW/CCW |
| 0 | 1 | L | H | CCW/CW |
| 1 | 1 | L | L | BRAKE |

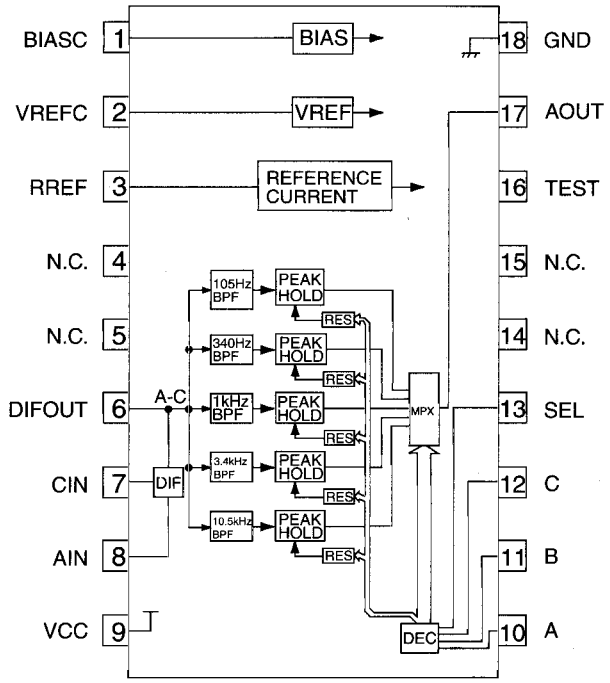
## ■LA2650 (IC406)

1.Terminal Layout/Block diagram



## ■BA3835S (IC542):SPI BPF

1.Block Diagrams

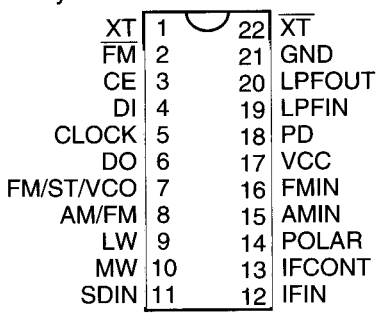



2.Pin Function

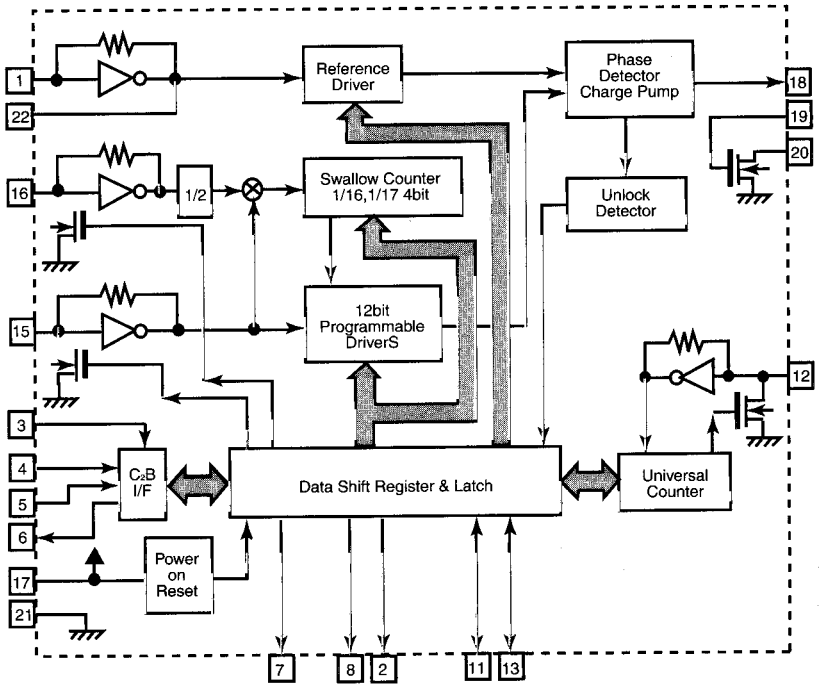
| No. | Symbol | I/O | Function |
|---|---|---|---|
| 1 | BIASC | - | Decoupling condenser connection terminal. |
| 2 | VREFC | - | Decoupling condenser connection terminal. |
| 3 | RREF | - | Reference resistance connection terminal. |
| 4 | NC | - | Non connect. |
| 5 | NC | - | Connected to GND of audio system through a condenser. |
| 6 | DIF OUT | - | Non connect. |
| 7 | CIN | - | Connected to GND of audio system through a condenser. |
| 8 | AIN | I | Inputs the audio signal through a condenser. |
| 9 | VCC | - | Power supply terminal. |
| 10 | SPI-A | O | Output selection control terminal. |
| 11 | SPI-B | O | Output selection control terminal. |
| 12 | SPI-C | O | Output selection control terminal. |
| 13 | SPICSB | O | Output selection control terminal. |
| 14 | NC | - | Non connect. |
| 15 | NC | - | Non connect. |
| 16 | TEST | - | Connected to GND upon normal use. |
| 17 | AOUT | O | Multi-plexor output terminal. |
| 18 | GND | - | Connect to GND. |

■ LC72136N(IC2):PLL Frequency synthesizer L S I

1. Layout




2. Block

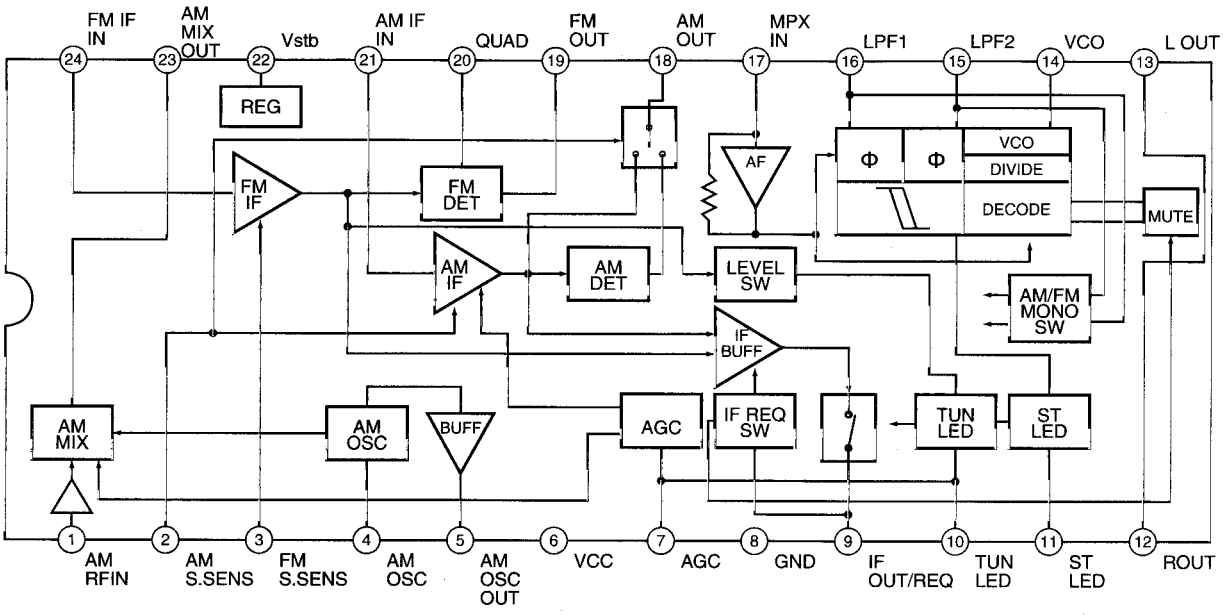



3. Function

| Pin No. | Symbol | I/O | Function | Pin No. | Symbol | I/O | Function |
|---|---|---|---|---|---|---|---|
| 1 | XT | I | X'tal oscillator connect (75KHz) | 12 | IFIN | I | IF counter signal input |
| 2 | $\overline{FM}$ | O | LOW:FM mode | 13 | IFCONT | O | IF signal output |
| 3 | CE | I | When data output/input for 4pin(input) and 6pin(output): H | 14 | POLAR | I | High : POLAR mode |
| 4 | DI | I | Input for receive the sirisl data from controller | 15 | AMIN | I | AM Local OSC signal output |
| 5 | CLOCK | I | Sync signal input use | 16 | FMIN | I | FM Local OSC signal input |
| 6 | DO | O | Data output for Controller Output port | 17 | VCC | - | Power suplly(VDD=4.5~5.5V) When power ON:Reset circuit move |
| 7 | FM/ST/VCO | O | "Low": MW mode | 18 | PD | O | PLL charge pump output(H: Local OSC frequency Height than Reference frequency. L: Low Agreement: Height impedance) |
| 8 | $\overline{AM/FM}$ | O | Not use | 19 | LPFIN | I | Input for active lowpassfilter of PLL |
| 9 | LW | I | High : LW | 20 | LPFOUT | O | Output for active lowpassfilter of PLL |
| 10 | MW | I | High : MW | 21 | GND | - | Connected to GND |
| 11 | SDIN | I/O | Data input/output | 22 | $\overline{XT}$ | O | X'tal oscillator(75KHz) |

## ■TA2057N(IC1) FM/AM IF AMP & Detector

### 1.Block Diagrams

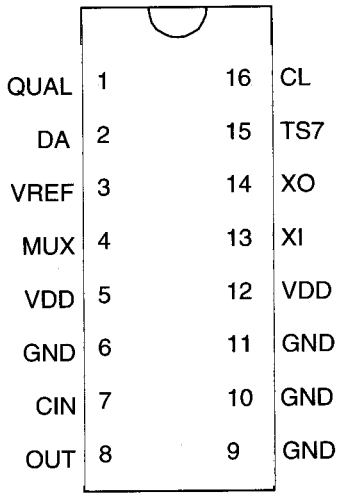



### 2.Pin Function

| Pin No. | I/O | Symbol | Function | Pin No. | I/O | Symbol | Function |
|---|---|---|---|---|---|---|---|
| 1 | I | AM RF | AMRF signal input | 13 | O | Lch OUT | Output Lch |
| 2 | | AM S.SENS | | 14 | O | VCO | Voltage controlled terminal |
| 3 | | FM S.SENS | | 15 | O | LPF2 | When voltage of terminal is MONO |
| 4 | - | AM OSC | AM local oscillation circuit | | | | at "H" and ST at "L" |
| 5 | O | AM OSC OUT | AM local oscillation signal output | 16 | O | LPF1 | When voltage of terminal is AM at |
| 6 | - | VCC | Power supply | | | | "H" and FM at "L" |
| 7 | I | AGC | AGC voltage input terminal | 17 | I | MPX IN | Multi plex signal input |
| 8 | - | GND | Connect to GND | 18 | O | AM OUT | AM detection signal output |
| 9 | O | IF OUT | IF REQ signal output to IC2 | 19 | O | FM OUT | FM detection signal output |
| 10 | O | TU IND | Indicator drive output when tuning | 20 | I | FM QUAD | Bypass to FMIF |
| 11 | O | ST IND | Stereo indicator output | 21 | I | AM IF IN | Input of AMIF signal |
| | | | "H"mono . "L"stereo | 22 | - | Vst | Fixed voltage output terminal |
| 12 | O | Rch OUT | Output Rch | 23 | O | AM MIX OUT | Output terminal for AM mixer |
| | | | | 24 | I | FM IF IN | Input of FMIF signal |

## ■BU1923(IC4):RDS Detector

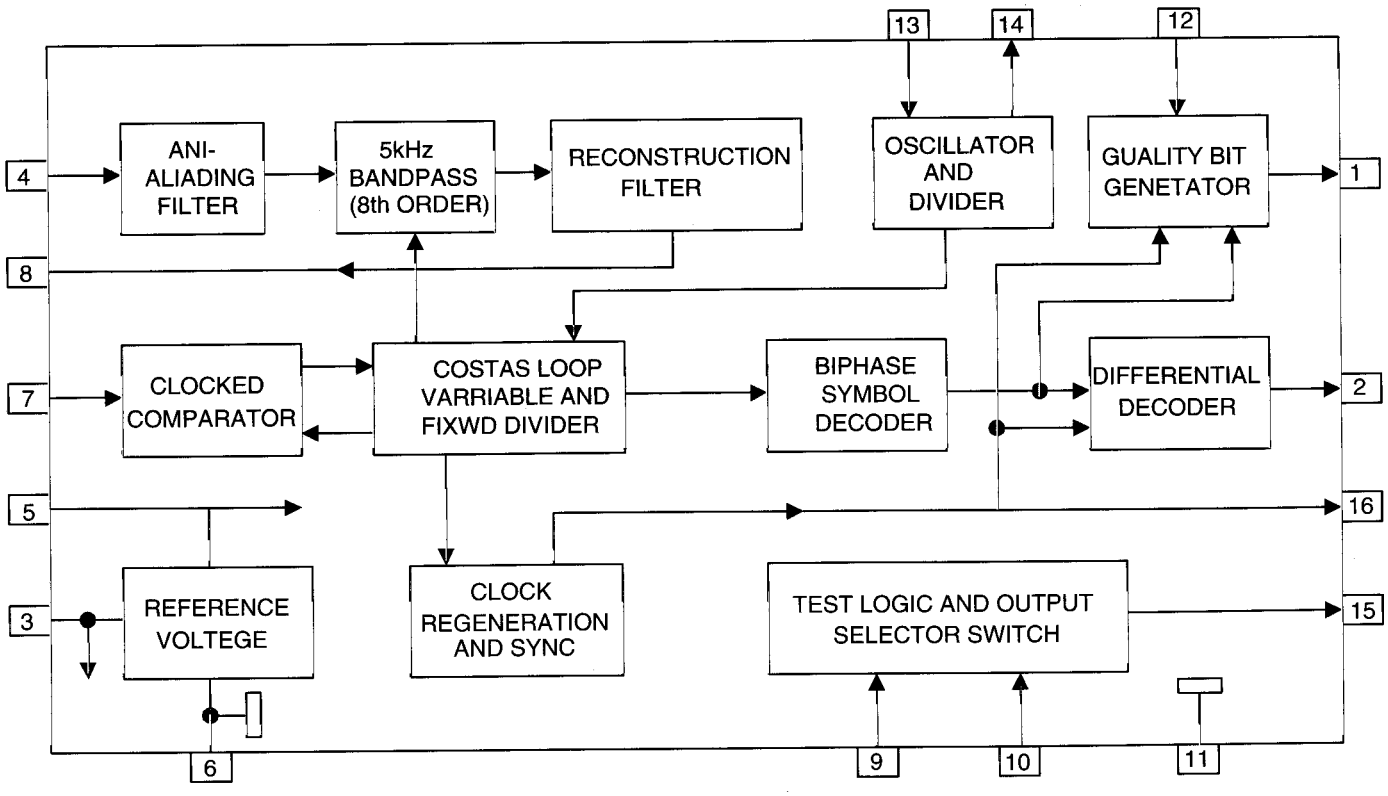
1.Terminal Layout



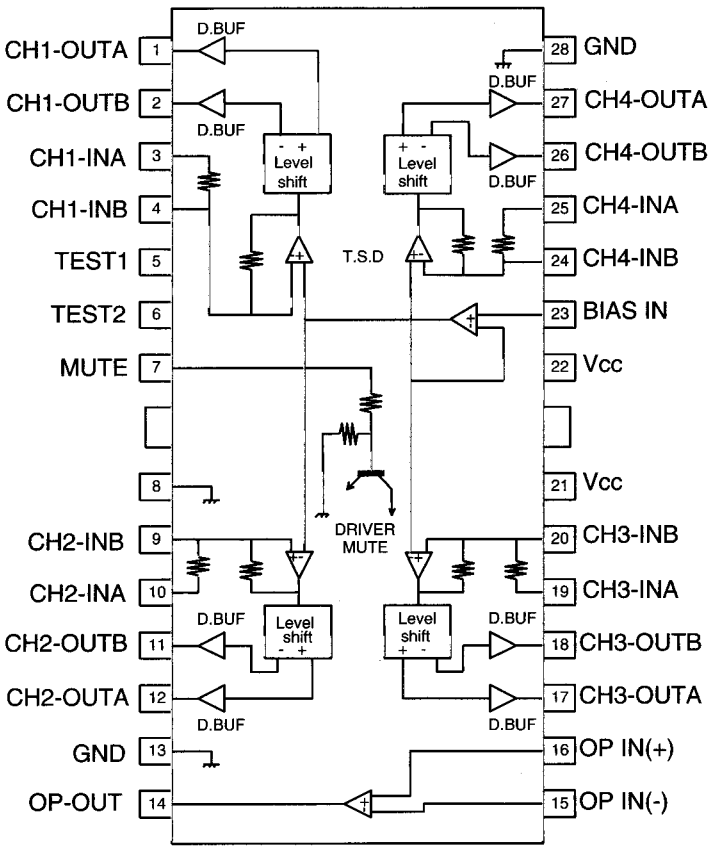

2.Pin Functiont

| Pin No. | Symbol | I/O | Function |
|---|---|---|---|
| 1 | QUAL | -- | Non connection |
| 2 | DA | O | RDS data output |
| 3 | VREF | O | Reference voltage output |
| 4 | MUX | I | Multiplex signal input |
| 5 | VDD | -- | +5Vsupply voltage for analog |
| 6 | GND | -- | Ground for analog part(0V) |
| 7 | CIN | I | Subcarrier outputof reconstruction filter |
| 8 | OUT | O | Ground for digital part(0V) |
| 9 | GND | -- | Ground for digital part(0V) |
| 10 | GND | -- | Ground for digital part(0V) |
| 11 | GND | -- | Ground for digital part(0V) |
| 12 | VDD | -- | +5Vsupply voltage for digital part |
| 13 | XI | I | Oscilator input |
| 14 | XO | O | Oscilator output |
| 15 | TS7 | -- | Non connection |
| 16 | CL | O | RDS clock output |

3.Block Diagram

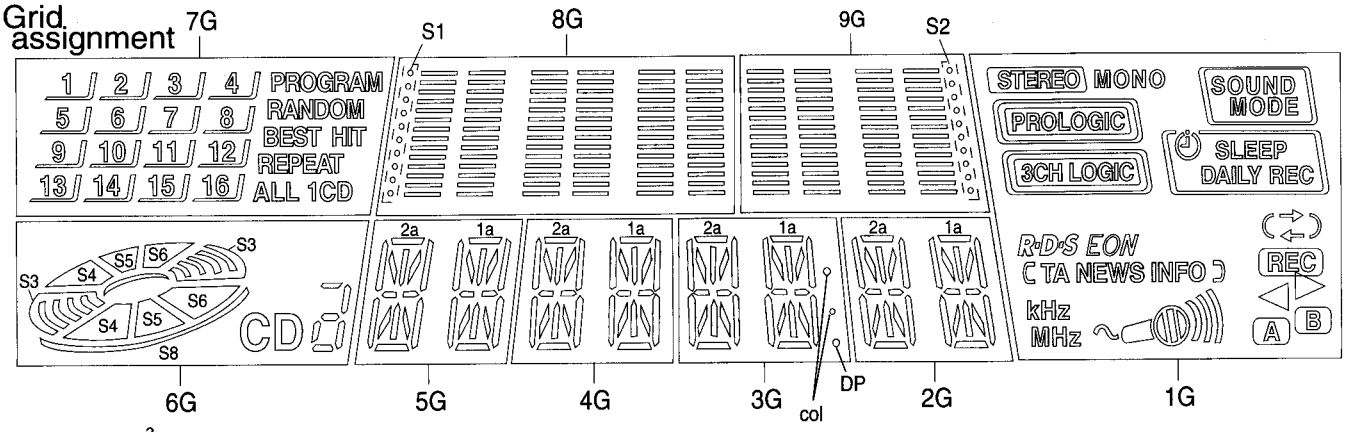


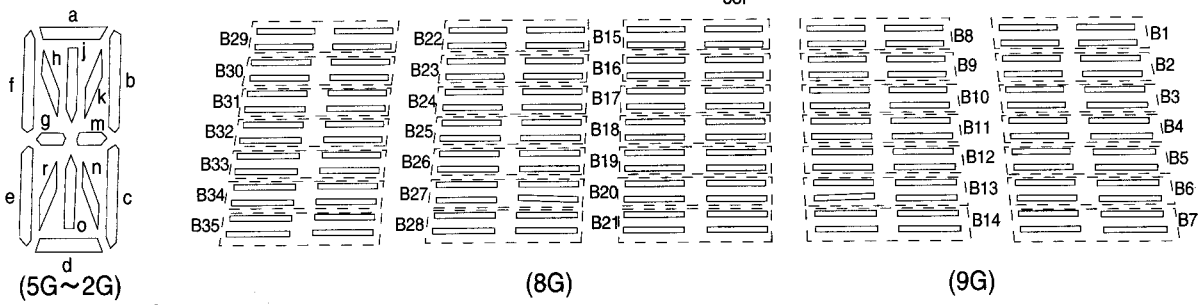
■ BA6897FP(IC801) 4channel driver



## QLF0040-001(FL801):FL DISPLAY TUBE

Grid assignment




(5G~2G) (8G) (9G)

Anode connection

| | 9G | 8G | 7G | 6G | 5G,4G | 3G | 2G | 1G |
|---|---|---|---|---|---|---|---|---|
| P1 | B1 | B15 | 1 | S3 | 2a | 2a | 2a | STEREO |
| P2 | B2 | B16 | 2 | S4 | 2h | 2h | 2h | PROLOGIC |
| P3 | B3 | B17 | 3 | S5 | 2j | 2j | 2j | |
| P4 | B4 | B18 | 4 | S6 | 2k | 2k | 2k | |
| P5 | B5 | B19 | 5 | S7 | 2b | 2b | 2b | 3CH LOGIC |
| P6 | B6 | B20 | 6 | S8 | 2f | 2f | 2f | REC |
| P7 | B7 | B21 | 7 | CD | 2m | 2m | 2m | |
| P8 | - | - | 8 | d | 2g | 2g | 2g | SLEEP |
| P9 | - | B29 | 9 | e | 2c | 2c | 2c | DAILY |
| P10 | - | B30 | 10 | c | 2e | 2e | 2e | SOUND MODE |
| P11 | - | B31 | 11 | g | 2r | 2r | 2r | |
| P12 | - | B32 | 12 | b | 2p | 2p | 2p | |
| P13 | - | B33 | RANDOM | a | 2n | 2n | 2n | |
| P14 | - | B34 | BEST HIT | - | 2d | 2d | 2d | kHz |
| P15 | - | B35 | REPEAT | - | - | col | - | MHz |

| | 9G | 8G | 7G | 6G | 5G,4G | 3G | 2G | 1G |
|---|---|---|---|---|---|---|---|---|
| P16 | - | - | - | - | - | Dp | - | REC |
| P17 | B8 | B22 | 13 | - | 1a | 1a | 1a | TA |
| P18 | B9 | B23 | 14 | - | 1h | 1h | 1h | R·D·S |
| P19 | B10 | B24 | 15 | - | 1j | 1j | 1j | EON |
| P20 | B11 | B25 | 16 | - | 1k | 1k | 1k | NEWS |
| P21 | B12 | B26 | ALL | - | 1b | 1b | 1b | INFO |
| P22 | B13 | B27 | 1 | - | 1f | 1f | 1f | (TA) |
| P23 | B14 | B28 | CD | - | 1m | 1m | 1m | (INFO) |
| P24 | S2 | S1 | PROGRAM | - | 1g | 1g | 1g | |
| P25 | - | - | - | - | 1c | 1c | 1c | |
| P26 | - | - | - | - | 1e | 1e | 1e | |
| P27 | - | - | - | - | 1r | 1r | 1r | |
| P28 | - | - | - | - | 1p | 1p | 1p | A |
| P29 | - | - | - | - | 1n | 1n | 1n | B |
| P30 | - | - | - | - | 1d | 1d | 1d | MONO |

Pin connection

| PIN No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONNECTION | F1 | F1 | NP | NP | NX | NX | P30 | P29 | P28 | P27 | P26 | P25 | P24 | P23 | P22 | P21 | P20 | P19 | P18 | P17 | P16 | P15 | NX | NX | NX | NX | NX | NX | NX | NX | NX | NX | NX | NX | NX | P54 | P53 | P52 | P51 | P50 | P49 | P48 | P47 | P46 | P45 | P44 | P43 | P42 | P41 | P40 | NX | G1 | G2 | G3 | G4 | G5 | G6 | G7 | G8 | G9 | NP | NP | F1 | F2 |

NOTE 1) F1,F2 Filament
2) NP No pin
3) NX No extend pin
4) DL Datum Line
5) 1G~9G Grid
6) Field of vision is a minimum of 33.8° from the upper side, 23.9° from the lower side

# Disassembly Procedures

■Removal of the Metal Cover

1.Remove the six screws A fastening the metal cover to the rear panel of the main unit.
2.Remove the two screws B fastening the metal cover to the side panel of the main unit.
3.Spread both sides of the metal cover outward and remove from the back panel by lifting upward.

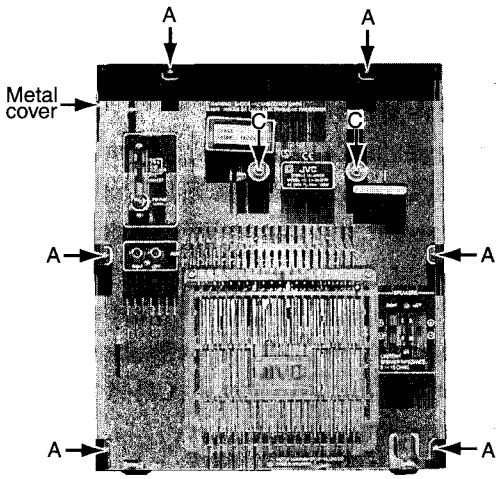


Fig 1

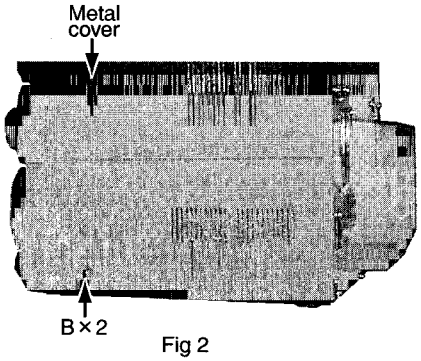


Fig 2

■Removal of the CD Changer Mechanism Assembly

1.Remove the metal cover
2.Remove the two screws C fastening the CD changer mechanism assembly to the rear panel of the main unit.
3.Remove the two screws D fastening the CD changer mechanism assembly to the top panel of the main unit.
4.Disconnect the card wire connected to the CD changer mechanism assembly from connector CN410 on the main amplifier board on the right side of the main unit.
5.Expand a rear panel outside,back of CD changer mechanism is lifted and detached.

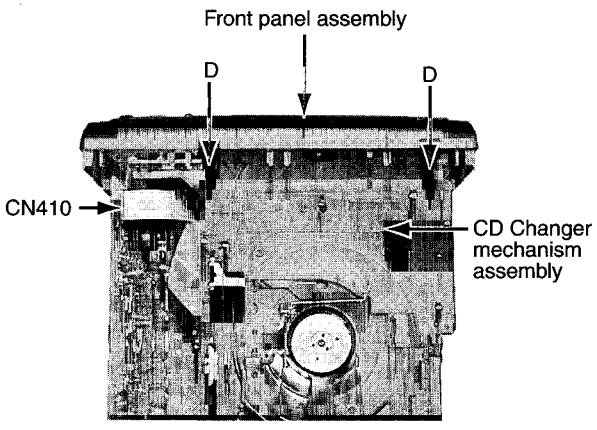


Fig 3

■Removal of the Front Panel Assembly

1.Remove the metal cover.
2.Remove the CD changer mechanism assembly.
3.Remove the four screws E fastening the front panel assembly to the bottom of the main unit.
4.Use a screwdriver,etc..,to disengage clips ⓐ and ⓑ from the side panels of the main unit.
5.Disconnect the wires connected to the front panel assembly from connectors CN411.CN412.CN413 on the main amplifier board.
6.Disconnect the wires CN915 and CN007 on the power amplifier board.
7.Remove the plastic rivet ⓒ fastening the main P.C.Board and front panel assembly.
8.Remove the front panel assembly.

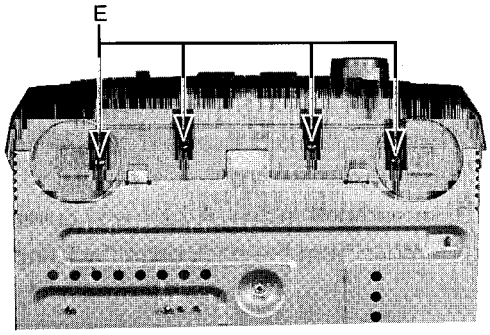


Fig 4

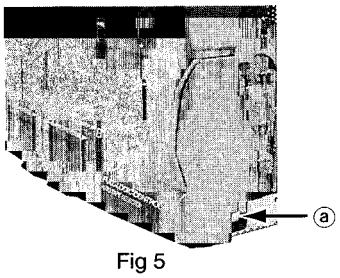


Fig 5

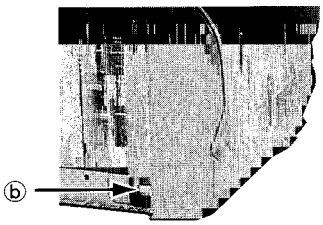


Fig 6

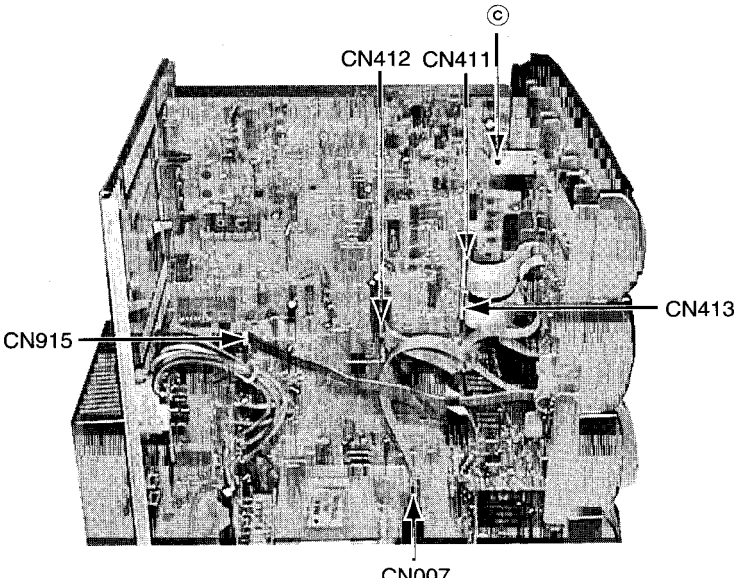


Fig 7

■Removal of the Rear Panel Assembly

1.Remove the metal cover.
2.Remove the CD changer mechanism assembly.
3.Remove seven screws F fastening the rear panel.
4.Remove two screws G fastening the rear cover.
5.Remove three screws I fastening the heat sink of the rear panel.
6.Use a screwdriver,etc.,to disengage the two engagements bottom chassis clips ⓓ and ⓔ from the bottom part of the side panels of the rear panel assembly.

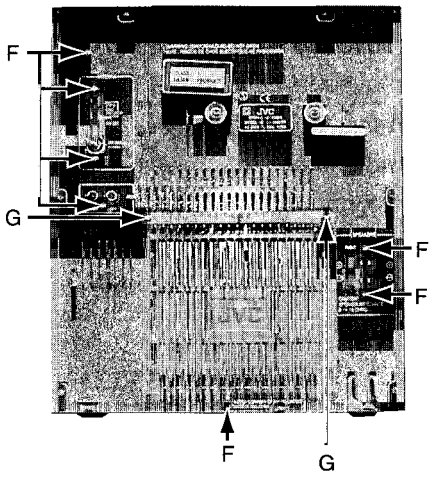


Fig 8

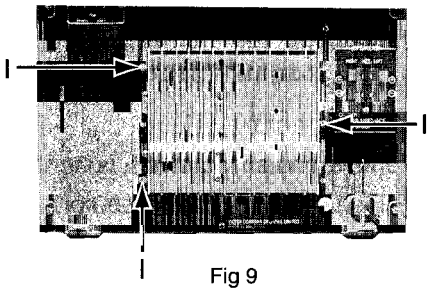


Fig 9

■Removal of the Main Amplifier Board

1.Remove the rear panel.
2.Remove one screw J fastening the main amplifire board and bottom chassis to the side panel of the main unit.
3.Disconnect the main amplifier board CN415 and CN416 from the power amplifier board. (See Fig 12)

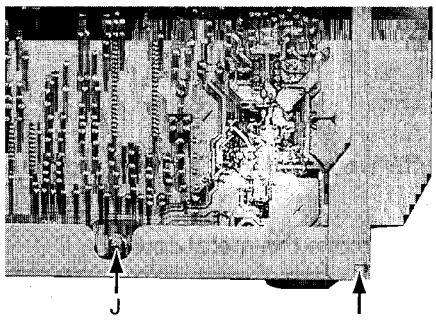


Fig 10

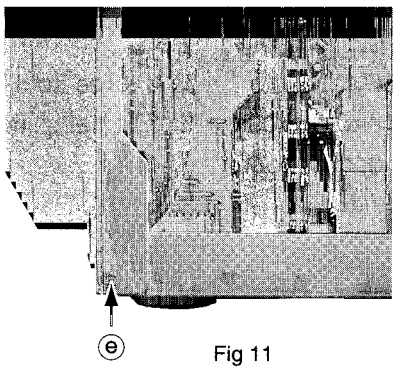


Fig 11

■Remove of the Power Transformer

1.Remove the metal cover.
2.Remove the CD changer mechanism assembly.
3.Remove the rear panel .
4.Remove the four screws K fastening the power transformer.
5.Disconnect the connector CN111 and CN009 on the power amplifier board.

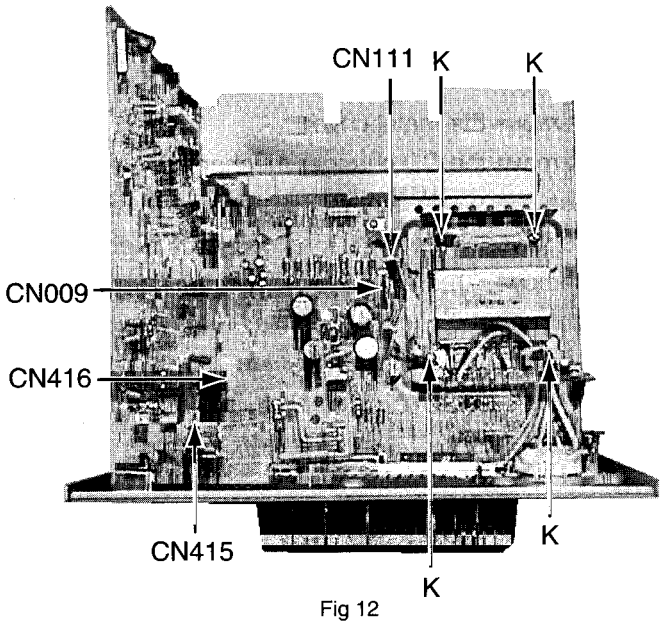


Fig 12

■Removal of the Front Panel

1.Remove the metal cover.
2.Remove the CD changer mechanism assembly.
3.Remove the front panel assembly.
4.Remove the volume knob and nut from the front panel assembly.
5.Remove the six screws L fastening the stay bracket inside the front panel assembly.
6.Remove the eleven screws M fastening the system CPU board.
7.Disconnect the card wires protruding from connector CN803 on the system CPU board.

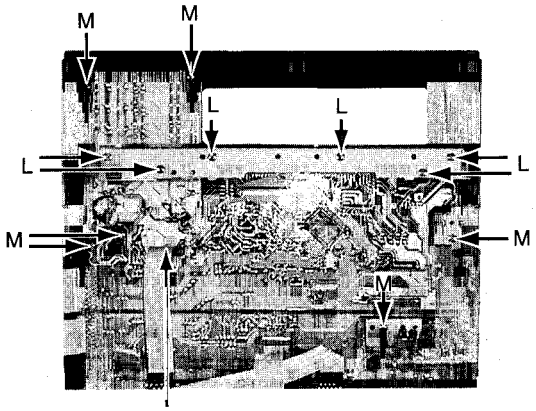


Fig 13

■Removal of the Cassette Mechanism Assembly.

1.Remove the metal cover.
2.Remove the CD traverse mechanism assembly.
3.Remove the front panel assembly.
4.Remove the eight screws N fastening the cassette mechanism assembly to the inside of the front panel assembly.
5.Disconnect the card wires from connectors CN305 and CN306 on the head amplifier & mechanism control board.

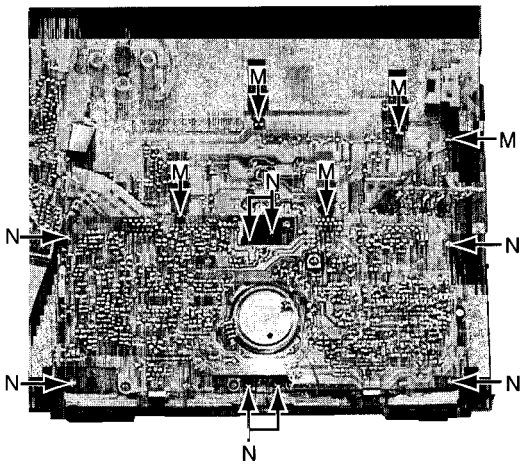


Fig 14

≪CD Changer Mechanism Type:VC3 Section≫

## ■Removing the CD Servo control board (See Fig.1)

1.Remove the metal cover.
2.Remove the CD changer mechanism assembly.
3.From bottom side the CD changer mechanism assembly, remove the two screws 1 retaining the CD servo control board.
4.Absorb the four soldered positions "M" of the right and left motors with a soldering absorber.
5.Pull out the earth wire on the CD changer mechanism assembly.
6.The two screws A is removed and C.B.holder is detached.
7.Disconnect the connector CN854 on the CD servo control board.
8.Disconnect the card wire CN601 and the connector CN801 on the CD servo control board.

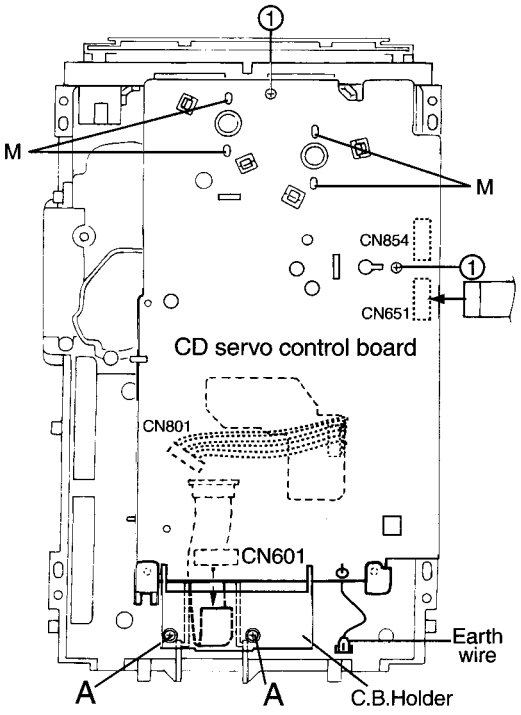



Fig.1

## ■Removing the CD tray assembly (See Fig.2~4)

1. Remove the front panel assembly.
2. Remove the CD changer mechanism assembly.
3. Remove the CD Servo control board.
4. From the T.bracket section "B" and clamper base section "C" , remove both of the edges fixing the rod(See Fig.2 and 3).
5. Remove the screw 2 retaining the Disc stopper (See Fig.3).
6. Remove the three screws 3 retaining the T.bracket (See Fig.3).
7. Remove the screws 4 retaining the clamper assembly (See Fig.3).
8. From the left side face of the chassis assembly, remove the one screw 5 retaining both of the return spring and lock lever(See Fig. 4).
9. By removing the pawl at the section "D" fixing the return spring, dismount the return spring(See Fig.4).
10. Remove the three lock levers(See Fig.4).

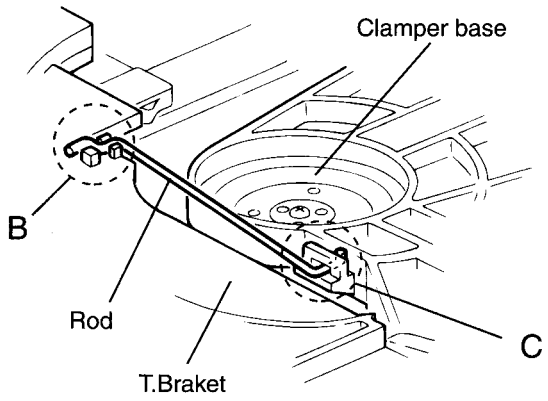



Fig.2

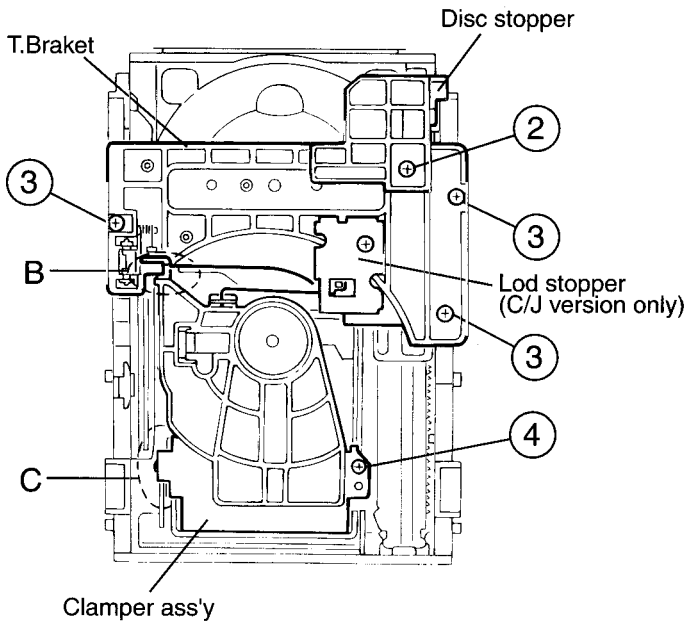



Fig.3

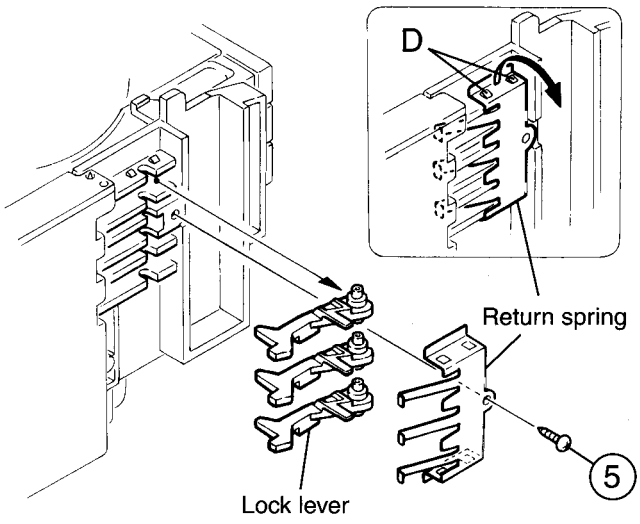



Fig.4

11. Check whether the lifter unit stopper has been caught into the hole at the section "E" of CD tray assembly as shown in Fig.5.
12. Make sure that the driver unit elevator is positioned as shown in Fig.6 from to the second or fifth hole on the left side face of the CD changer mechanism assembly.

**[Caution]** In case the driver unit elevator is not at above position, set the elevator to the position as shown in Fig.7 by manually turning the pulley gear as shown in Fig.8.

13. Manually turn the motor pulley in the clockwise direction until the lifter unit stopper is lowered from the section "E" of CD tray assembly(See Fig.8).
14. Pull out all of the three stages of CD tray assembly in the arrow direction "F" until these stages stop (See Fig.6).
15. At the position where the CD tray assembly has stopped, pull out the CD tray assembly while pressing the two pawls "G and G" on the back side of CD tray assembly(See Fig.9). In this case, it is easy to pull out the assembly when it is pulled out first from the stage CD tray assembly.

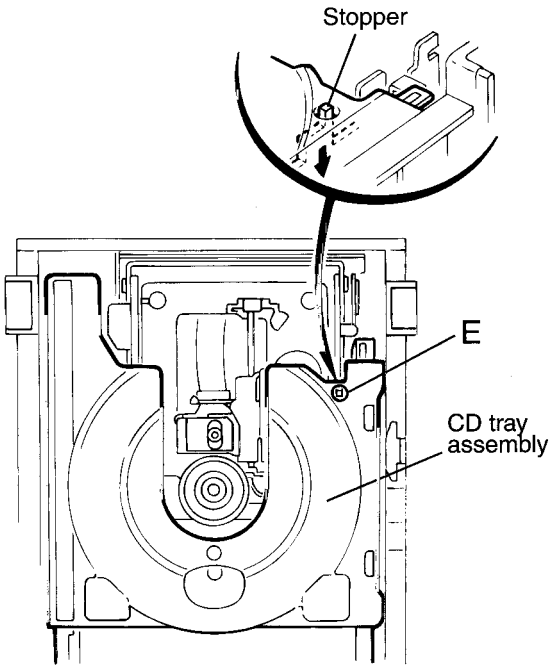



Fig.5

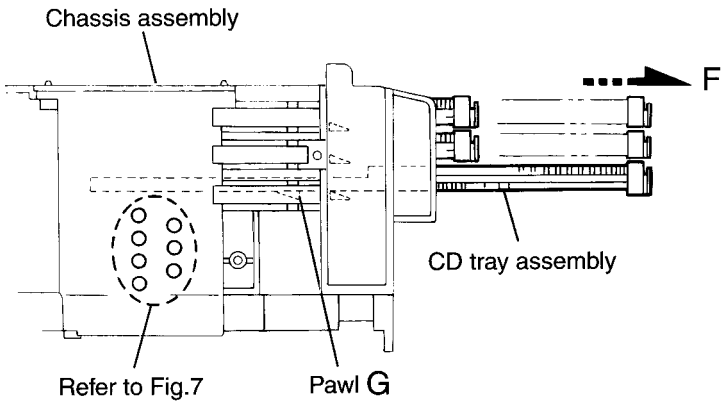



Fig.6

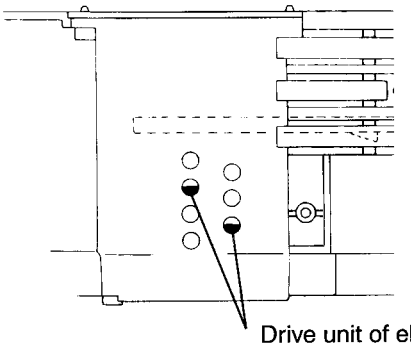



Fig.7

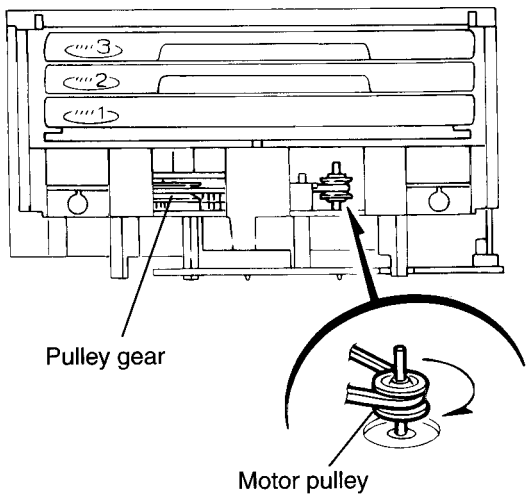



Fig.8

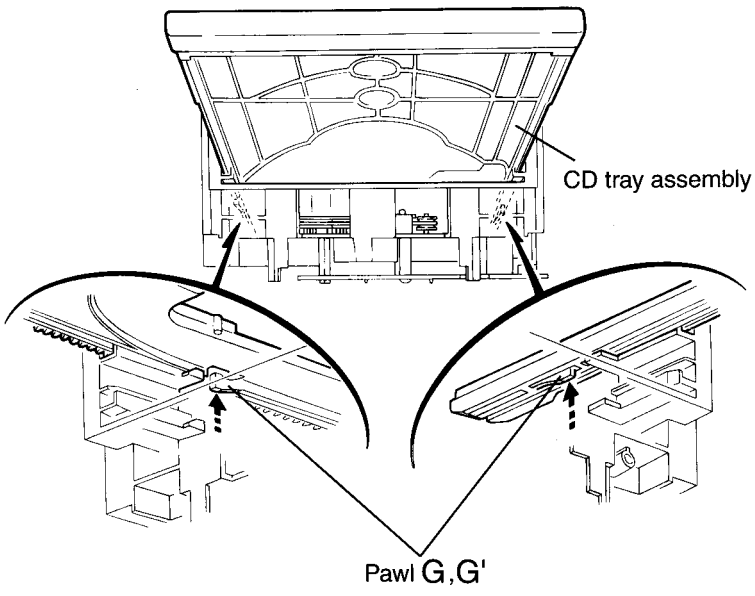



Fig.9

## ■Removing the CD loading mechanism assembly(See Fig.10)

1. While turning the cams R1 and R2 assembly in the arrow direction "H" , align the shaft "I" of the CD loading mechanism assembly to the position shown in
2. Fig.10.
   Remove the four screws 6 retaining the CD loading mechanism assembly.

## ■Removing the CD traverse mechanism (See Fig.11 and 12 )

1. For dismounting only the CD traverse mechanism without removing the CD loading mechanism assembly, align the shaft "J" of the CD loading mechanism assembly to the position shown Fig.11 while turning the cam R1 and R2 assembly in the arrow direction "K" .
2. By raising the CD loading mechanism assembly in the arrow direction "L" , remove the assembly from the lifter unit

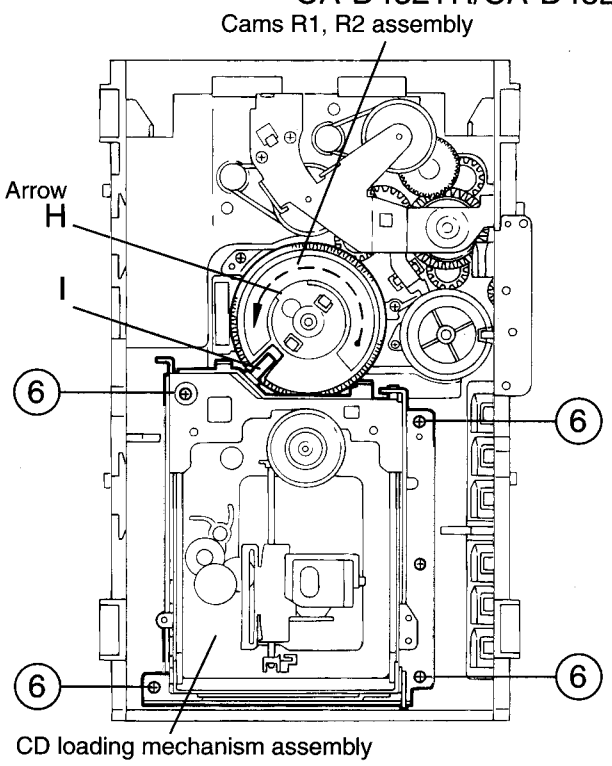



Fig.10

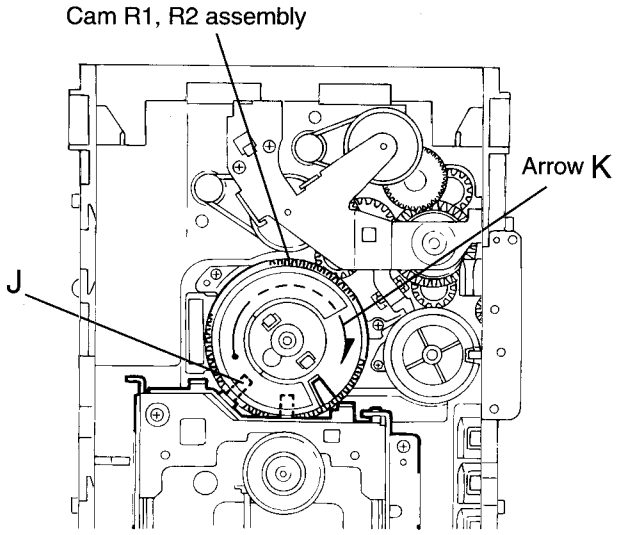



Fig.11

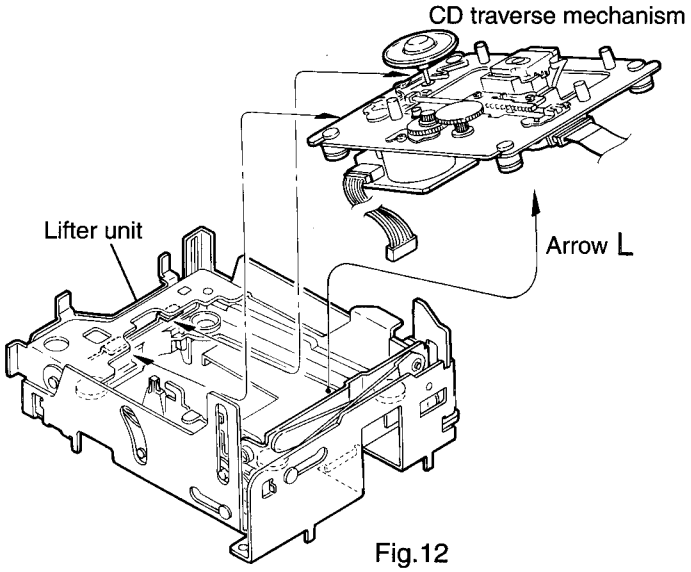



Fig.12

## ■Removing the CD pick unit (See Fig.13 )

1. Move the cam gear in the arrow direction a . Then, the CD pickup unit will be moved in the arrow direction b .
2. According to the above step, shift the CD pickup unit to the center position.
3. While pressing the stopper retaining the shaft in the arrow direction c , pull out the shaft in the arrow direction d .
4. After dismounting the shaft from the CD pickup unit, remove the CD pickup unit

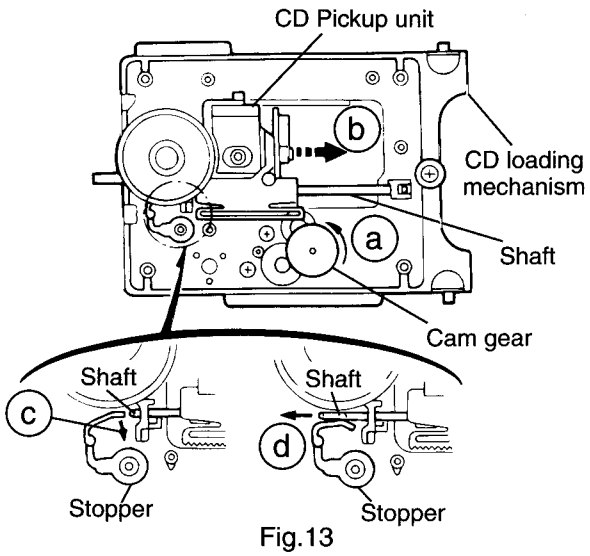



Fig.13

## ■Removing the cam unit (See Fig.14 ~17 )

1. Remove the CD loading mechanism assembly.
2. While turning the cam gear L, align the pawl "N" position of the drive unit to the notch position(Fig.16) on the cam gear L.
3. Pull out the drive unit and cylinder gear(See Fig.17).
4. While turning the cam gear L, align the pawl "O" position of the select lever to the notch position(Fig.18) on the cam gear L.
5. Remove the four screws 9 retaining the cam unit(cam gear L and cams R1/R2 assembly)(See Fig.18).

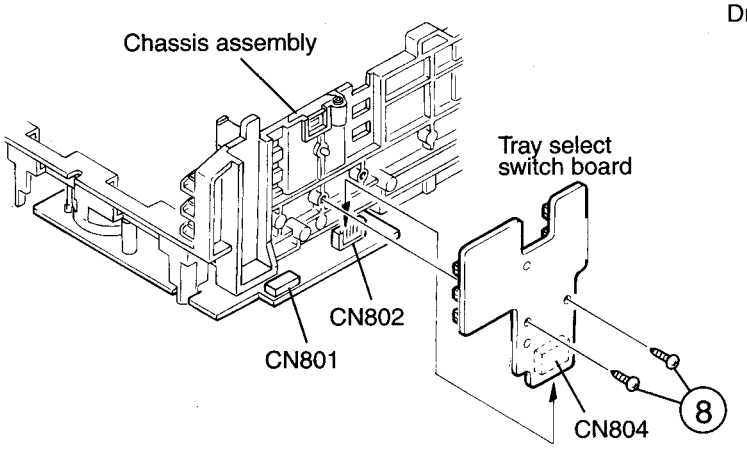



Fig.14

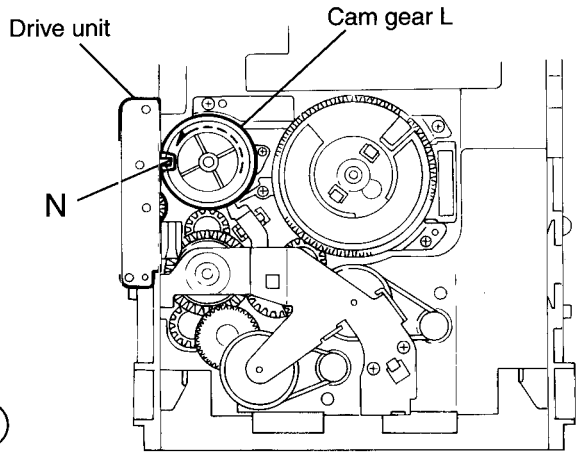



Fig.15

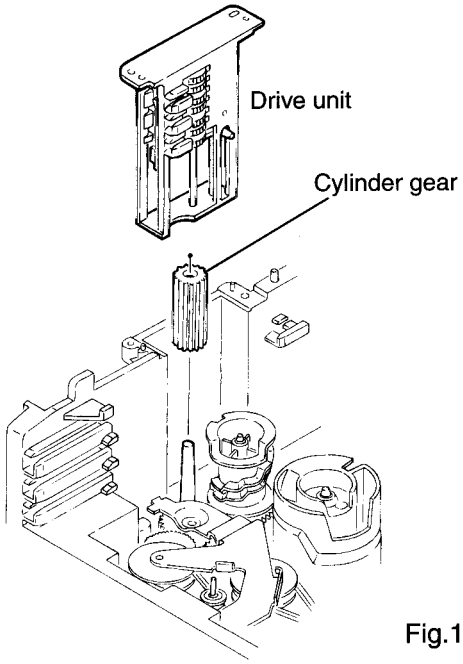



Fig.16

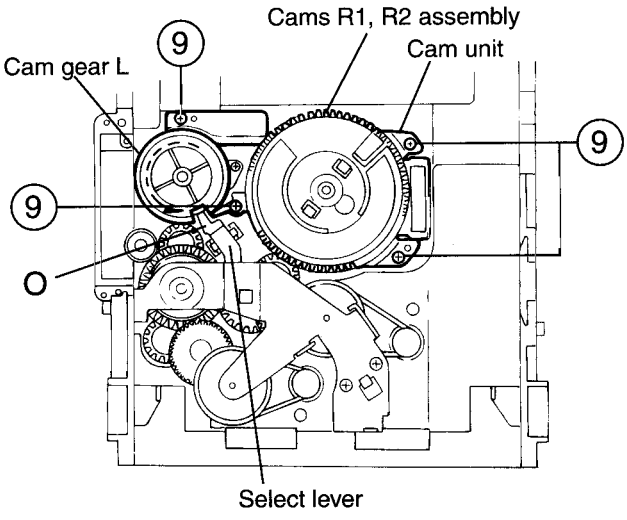



Fig.17

## ■Removing the actuator motor and belt (See Fig.18~21)

1. Remove the two screws 10 retaining the gear bracket (See Fig.19).
2. While pressing the pawl "P" fixing the gear bracket in the arrow direction, remove the gear bracket (See Fig.19).
3. From the notch "Q section" on the chassis assembly fixing the edge of gear bracket, remove and take out the gear bracket(See Fig. 20).
4. Remove the belts respectively from the right and left actuator motor pulleys and pulley gears(See Fig. 19).
5. After turning over the chassis assembly, remove the actuator motor while spreading the four pawls "R" fixing the right and left actuator motors in the arrow direction(See Fig. 21).

**[Note]** When the chassis assembly is turned over under the conditions wherein the gear bracket and belt have been removed, then the pulley gear as well as the gear, etc. constituting the gear unit can possibly be separated to pieces. In such a case, assemble these parts by referring to the assembly and configuration diagram in Fig. 22.

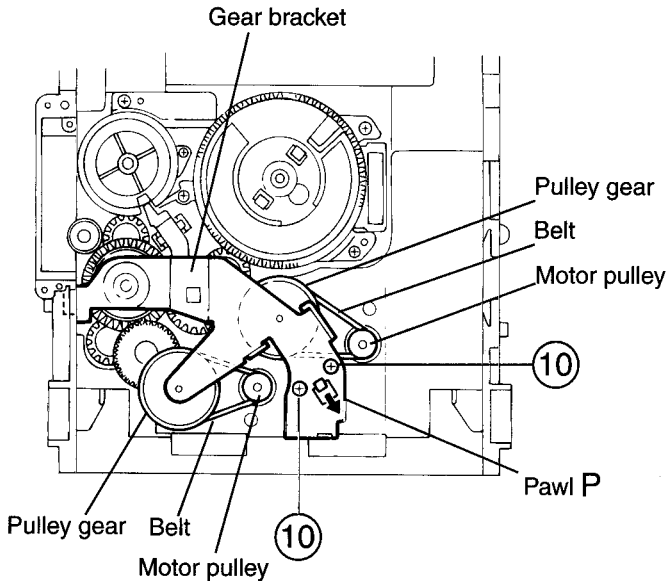



Fig.18

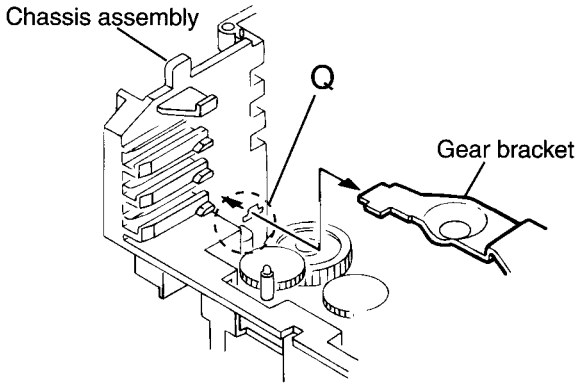



Fig.19

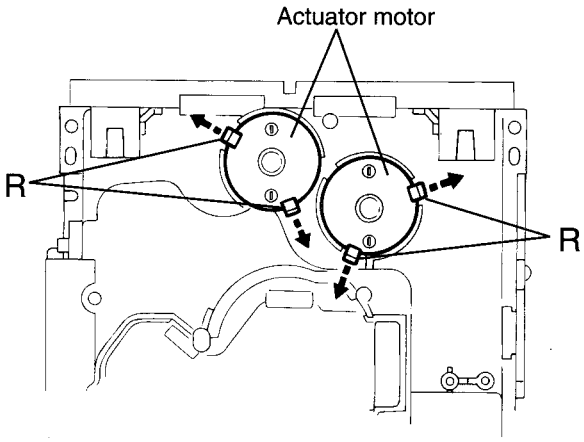



Fig.20

## Assembly and Configuration Diagram

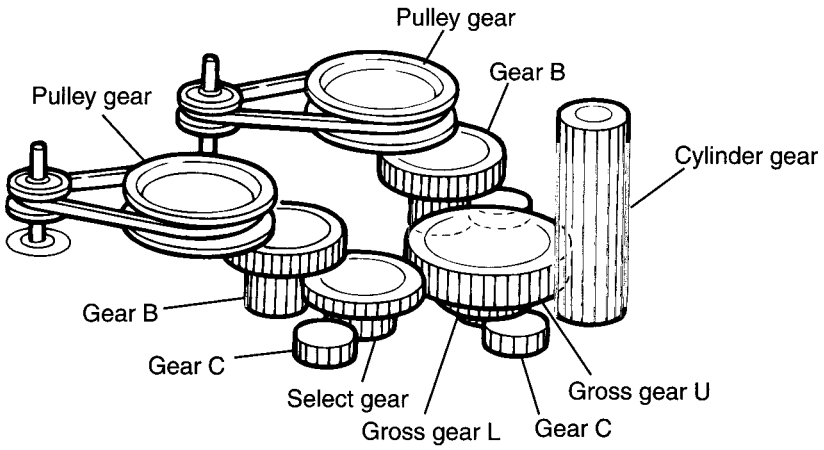



Fig.21

## ■Removing the cams R1/R2 assembly and cam gear L(See Fig.22)

1. Remove the slit washer fixing the cams R1 and R2 assembly.
2. By removing the two pawls "S" fixing the cam R1, separate R2 from R1.
3. Remove the slit washer fixing the cam gear L.
4. Pull out the cam gear L from the C.G. base assembly.

## ■Removing the C.G. base assembly (See Fig.22 and 23)

Remove the three screws 11 retaining the C.G. base assembly.

**[Caution]** To reassemble the cylinder gear, etc.with the cam unit (cam gear and cans R1/R2 assembly), gear unit and drive unit, align the position of the pawl "N" on the drive unit to that o f the notch on the cam gear L. Then, make sure that the gear unit is engaged by turning the cam gear L (See Fig. 24).

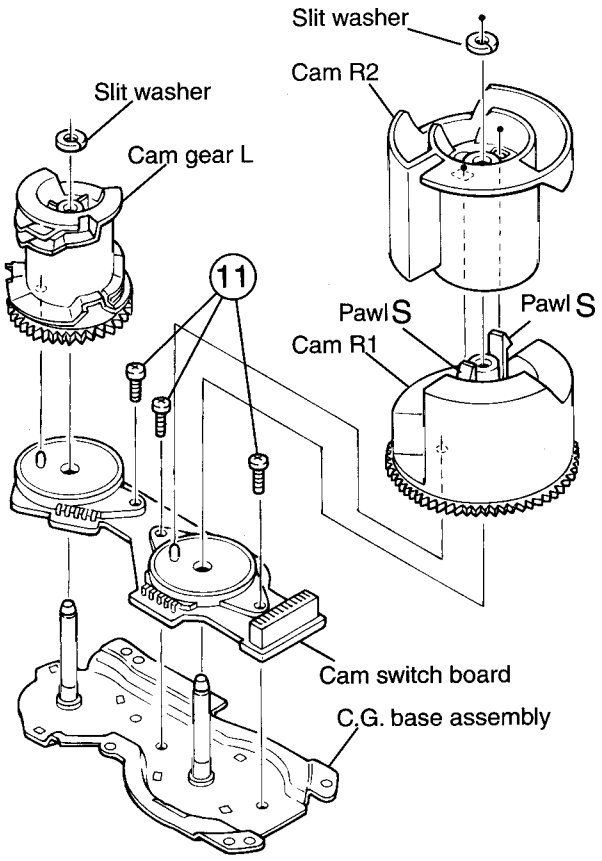



Fig.22

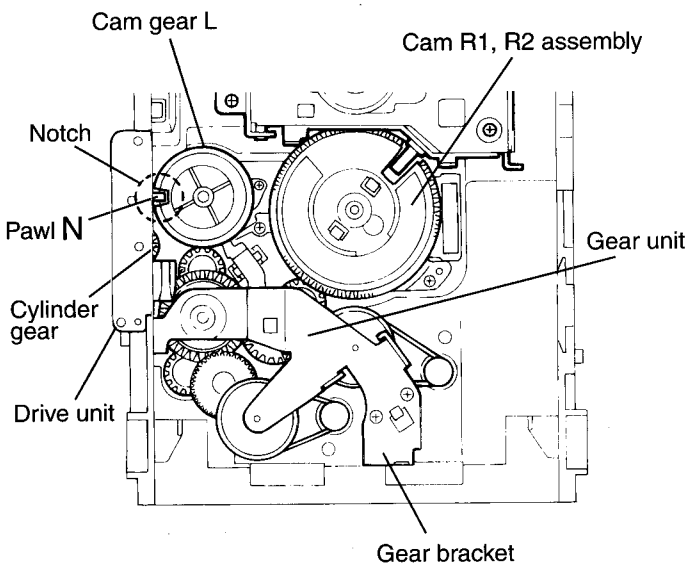



Fig.23

## < Cassette Mechanism Section >

### ■Removing the Playback,Recording and Eraser Heads

1.While shifting the trigger arms seen on the right side of the head mount in the arrow direction,turn the flywheel R in counterclockwise direction until the head mount has gone out with a click (See Fig 1).
2.When the flywheel R is rotated in counterclockwise direction, the playback head will be turned in counterclockwise direction from the position in Fig 2 to that in Fig 3.
3.At this position, disconnect the flexible P.C.board (outgoing from the playback head) from the connector CN301 on the head amp. and mechanism control P.C. board.
4.After dismounting the FPC holder,remove the flexible P.C.board.
5.Remove the flexible P.C.board from the chassis base.
6.Remove the spring ⓐ from behind the playback head.
7.Loosen the reversing azimuth screw retaining the playback head.
8.Take out the playback head from the front of the head mount.
9.The recording and erase heads should also be removed similarly according to Steps 1~8 above.

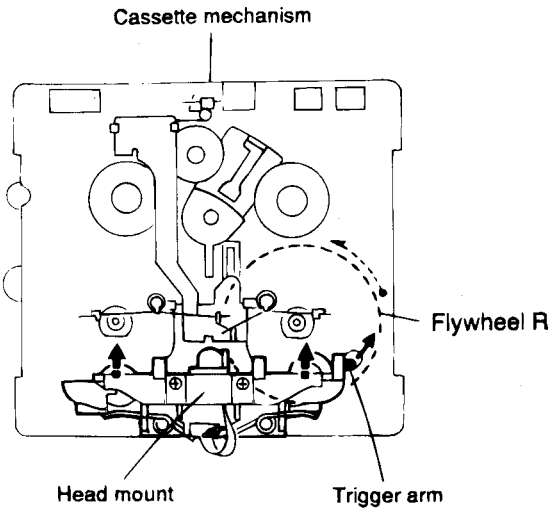



Fig 1 (Mechanism A side)

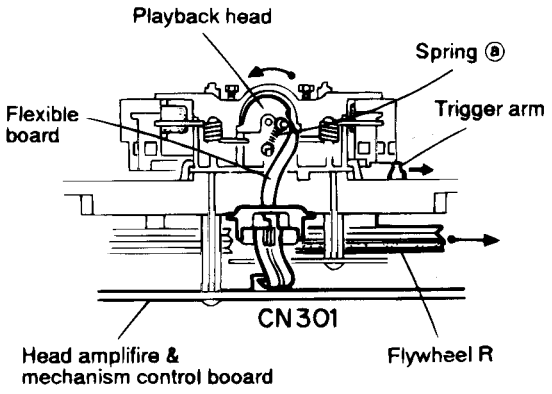



Fig 2 (Mechanism A side)

### ●Reassembling the Playback,Recording and Erase Heads

1.Reassemble the playback head from the front of the head mount to the position as shown in Fig 3.
2.Fix the reversing azimuth screw.
3.Set the spring ⓐ from behind the playback head.
4.Attach the flexible P.C.board to the chassis base, and fix it with the FPC holder as shown in Fig 3.
5.The recording and eraser heads should also be reassembled similarly according to Steps 1~4 above.

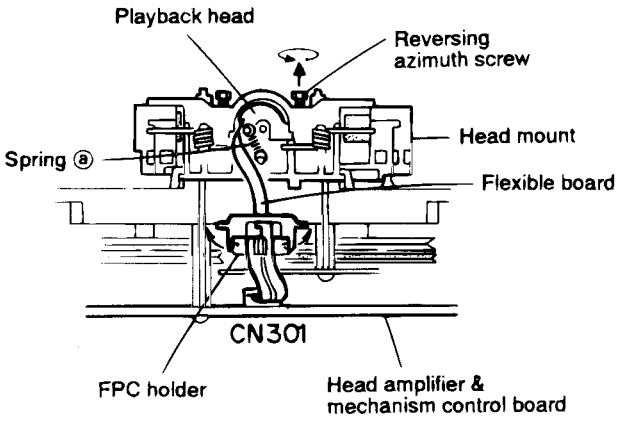



Fig 3 (Mechanism B side)

## ■Removing the head Amp.and Mechanism Control P.C.Board (See Fig 4)

1.Remove the cassette mechanism assembly.
2.After turning over the cassette mechanism assembly,remove the five screws ① retaining the head amp. and mechanism control P.C. board
3.Disconnect the connectors CN303 and CN304 on the P.C.Board and the connectors CN1 on both the right and left side reel pulse P.C.Boards.
4.When necessary, remove the 4pin parallel wire soldered to the main motor

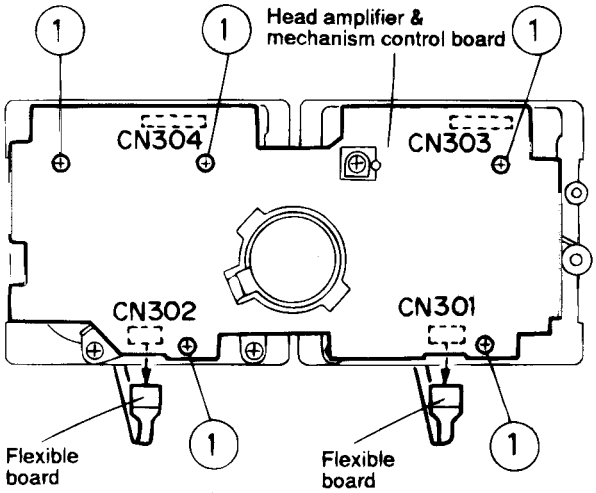



Fig 4

## ■Removing the Capstan Motor Assembly

1.Remove the six screws ② retaining capstan motor assembly (See Fig 5).
2.While raising the capstan motor, remove the capstan belts A and B respectively from the motor pulley (See Fig 6).

Caution 1: Be sure to handle the capstan belts so carefully that these belts will not be stained by grease and other foreign matter. Moreover, these belts should be hand while referring to the capstan belt hanging method.

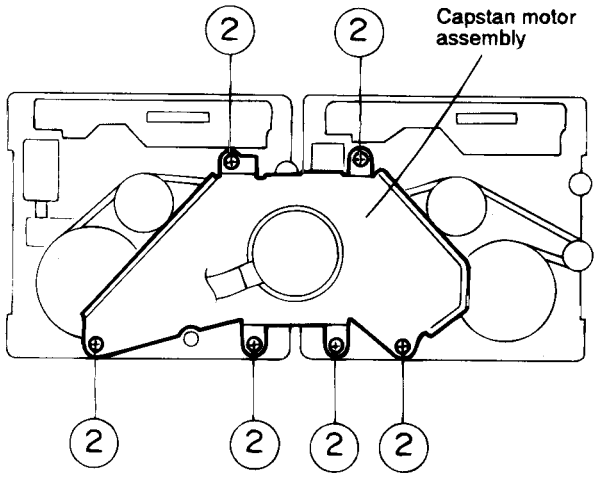



Fig 5

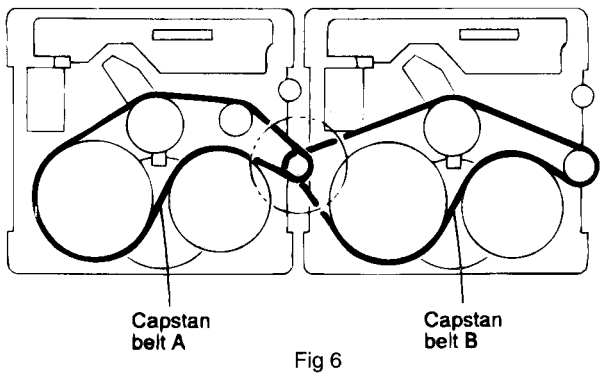



Fig 6

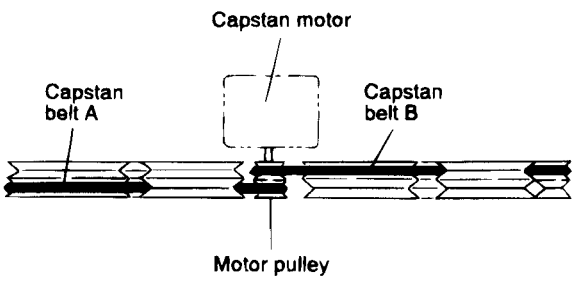



Fig 7

## ■Removing the Capstan Motor (See Fig 8)

From the joint bracket, remove the two screws③ retaining the capstan motor.

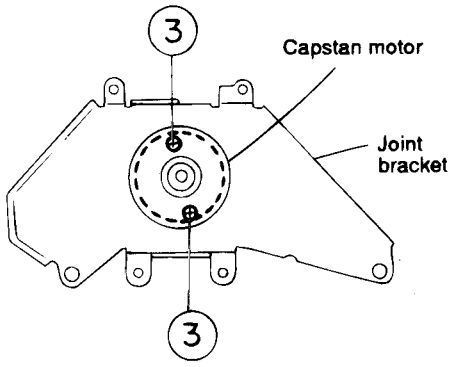



Fig 8

## ■Removing the Flywheel (See Fig 9.10)

1.Remove the head amp. and mechanism control P.C.Board.
2.Remove the capstan motor assembly.
3.After turning over the cassette mechanism, remove the slit washers ⓐ and ⓑ fixing the capstan shafts R and L, and pull out the flywheels R and L respectively from behind the cassette mechanism.

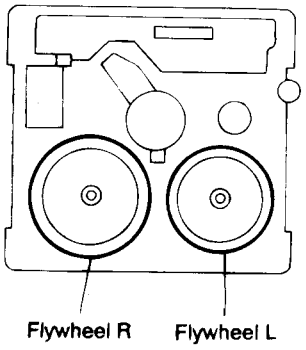



Fig 9

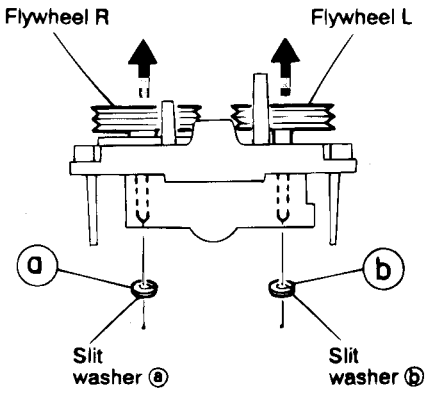



Fig 10

## ■Removing the Reel Pulse P.C.Board and Solenoid (See Fig 11)

1.Remove the five pawls (ⓒ ⓓ ⓔ ⓕ ) retaining the reel pulse P.C.Board.
2.From the surface of the reel pulse P.C.Board parts, remove the two pawls ⓗ and ⓘ retaining the solenoid.

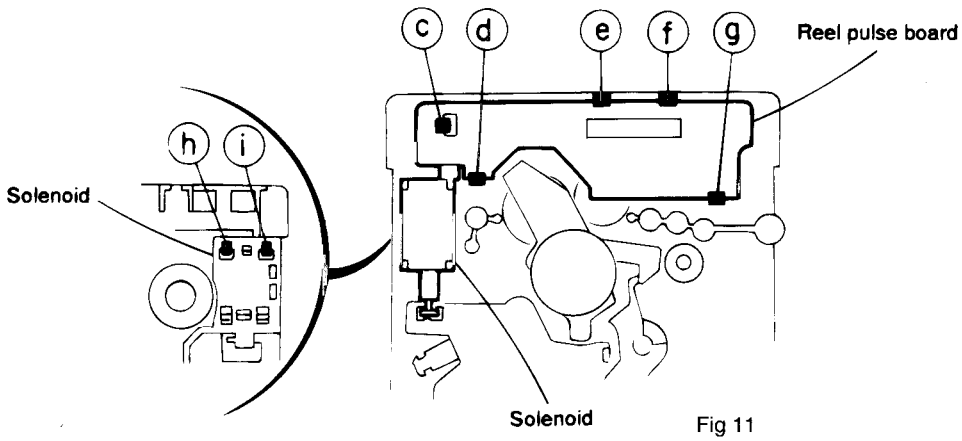
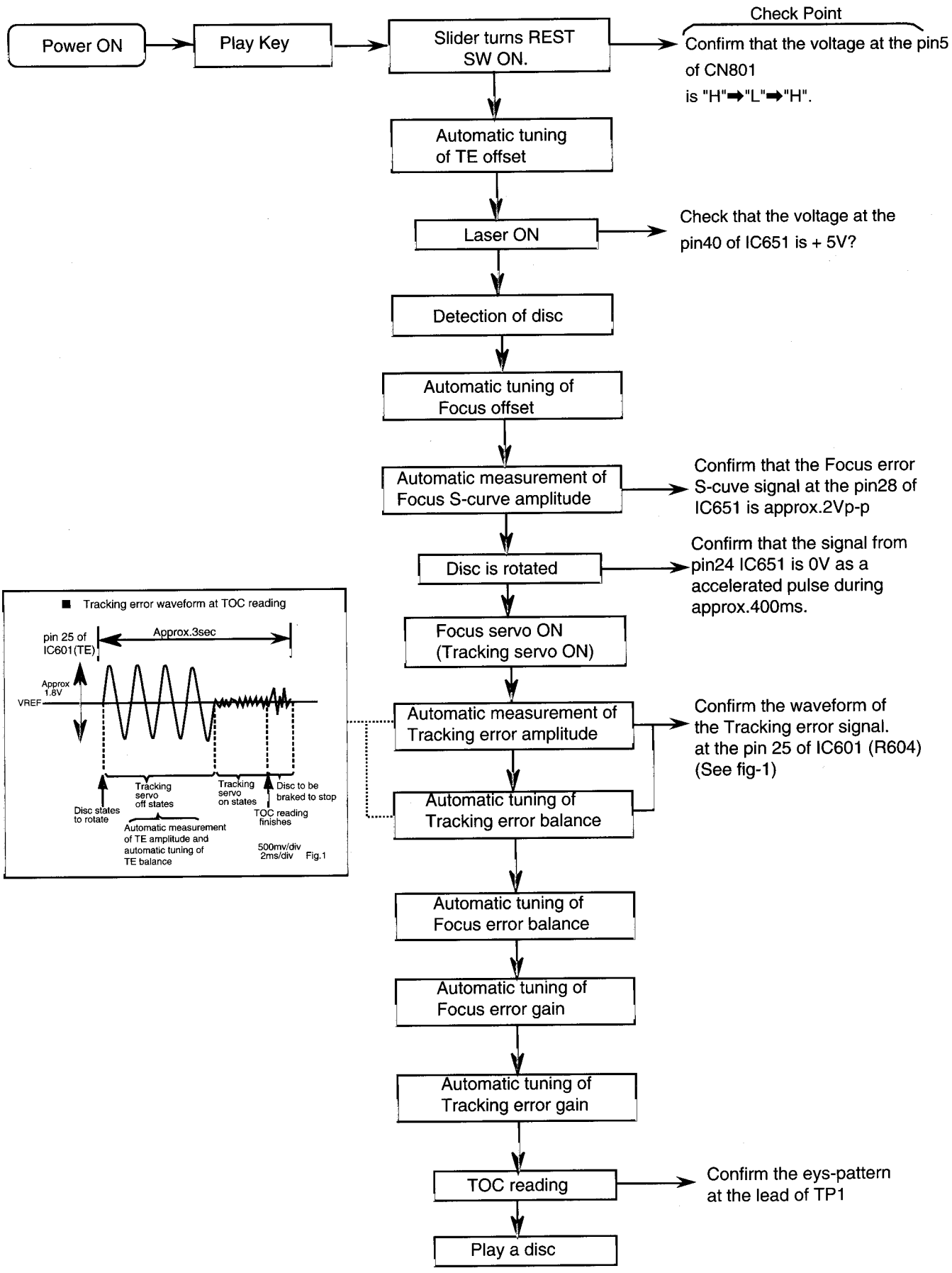



Fig 11

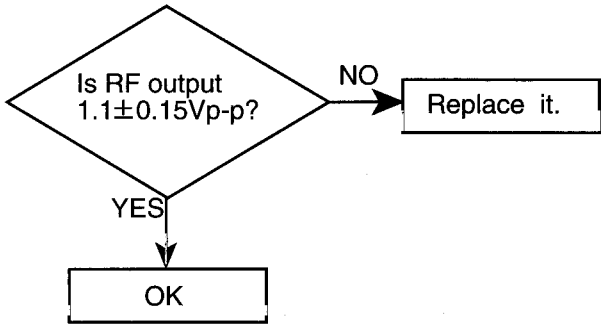
# Flow of Functional Operation Until TOC Read


Power ON
Play Key
Slider turns REST SW ON.
Check Point
Confirm that the voltage at the pin5 of CN801 is "H"➡"L"➡"H".
Automatic tuning of TE offset
Laser ON
Check that the voltage at the pin40 of IC651 is + 5V?
Detection of disc
Automatic tuning of Focus offset
Automatic measurement of Focus S-curve amplitude
Confirm that the Focus error S-cuve signal at the pin28 of IC651 is approx.2Vp-p
Disc is rotated
Confirm that the signal from pin24 IC651 is 0V as a accelerated pulse during approx.400ms.
Focus servo ON (Tracking servo ON)
Automatic measurement of Tracking error amplitude
Confirm the waveform of the Tracking error signal. at the pin 25 of IC601 (R604) (See fig-1)
Automatic tuning of Tracking error balance
Automatic tuning of Focus error balance
Automatic tuning of Focus error gain
Automatic tuning of Tracking error gain
TOC reading
Confirm the eys-pattern at the lead of TP1
Play a disc
■ Tracking error waveform at TOC reading
pin 25 of IC601(TE)
Approx.3sec
Approx 1.8V
VREF
Disc states to rotate
Tracking servo off states
Tracking servo on states
Disc to be braked to stop
TOC reading finishes
Automatic measurement of TE amplitude and automatic tuning of TE balance
500mv/div
2ms/div
Fig.1

# Maintenance of Laser Pickup

(1) Cleaning the pick up lens
Before you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.

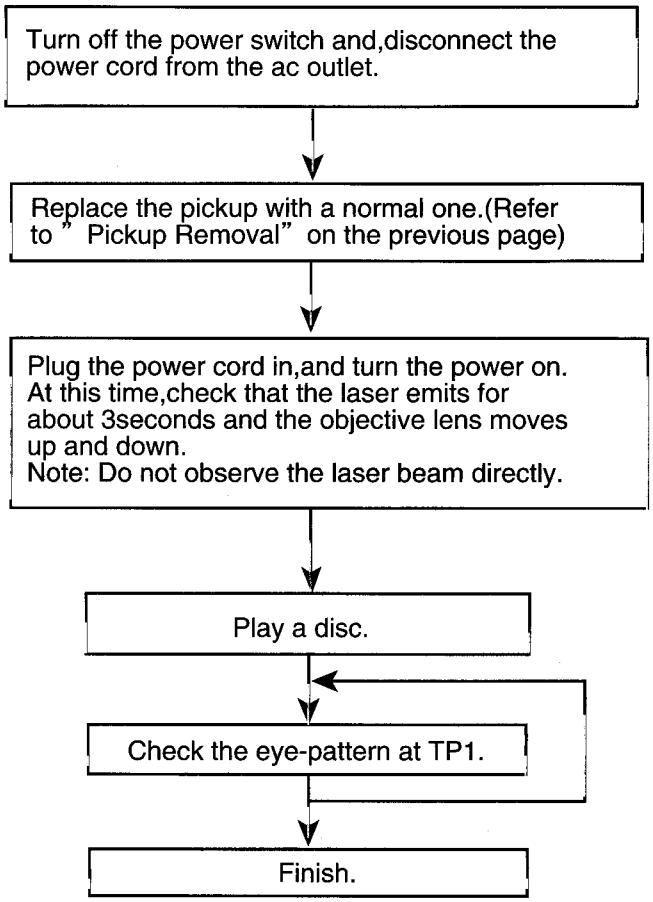
(2) Life of the laser diode (Fig.1)
When the life of the laser diode has expired, the following symptoms will appear.
(1) The level of RF output (EFM output:amplitude of eye pattern) will below.




(Fig.1)

(3) Semi-fixed resistor on the APC PC board
The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power.Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.
If the laser power is lower than the specified value,the laser diode is almost worn out, and the laser pickup should be replaced.
If the semi-fixed resistor is adjusted while the pickup is functioning normally,the laser pickup may be damaged due to excessive current.

# Replacement of Laser Pickup


Turn off the power switch and,disconnect the power cord from the ac outlet.
Replace the pickup with a normal one.(Refer to " Pickup Removal" on the previous page)
Plug the power cord in,and turn the power on. At this time,check that the laser emits for about 3seconds and the objective lens moves up and down.
Note: Do not observe the laser beam directly.
Play a disc.
Check the eye-pattern at TP1.
Finish.

# Adjustment Procedures

## ■ Measurement Instruments Required for Adjustment

1. Low frequency oscillator,
   This oscillator should have a capacity to output 0dBs to 600Ω at an oscillation frequency of 50Hz-20kHz.
2. Attenuator impedance : 600Ω
3. Electronic voltmeter
4. Frequency counter
5. Wow flutter meter
6. Test tape
   VTT712 : For Tape speed and wow flutter ( 3kHz)
   VTT724 : For Reference level (1kHz)
   TMT7036 : For Head angle(10kHz),Play back frequency characteristics(1kHz),and dubbing frequency characteristics(63,1,10kHz)
   Because of frequency-mixed tape with 63,1k,10k and 14kHz(250nWb/m -24dB).
   Use this tape together with a filter.
7. Blank tape
   TAPE Ⅰ : AC-225, TAPE Ⅱ : AC-514
8. Torque gauge : For play and back tension
   Forward ; TW2111A, Reverse ; TW2121A
   Fast Forward and Rewind ; TW2231A
9. Test disc
   : CTS-1000(12cm),GRG-1211(8cm)
10. Jitter meter

## ■ Measurement Conditions

Power supply voltage : AC 230V (50Hz)
Reference output : Speaker 0.775V/6 Ω
: Headphone 0.0775V/32 Ω
Measurement
Output terminal : Speaker out
:TP101(Mesuring for TUNER/DECK/CD)

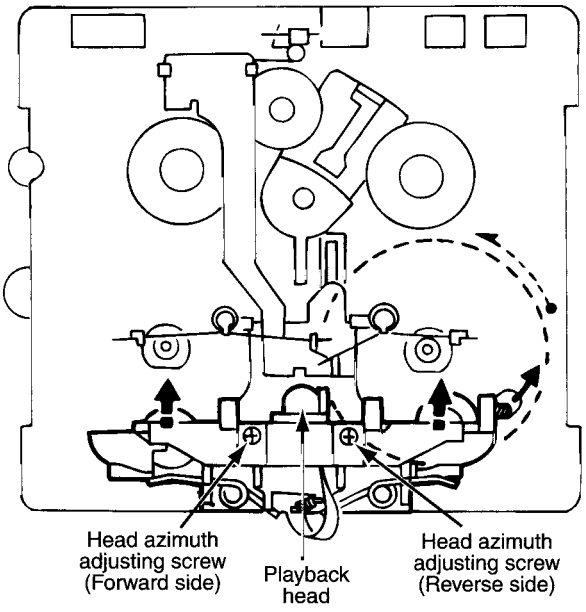
**Radio input signal**
AM modulation frequency : 400Hz
Modulation factor : 30%
FM modulation frequency : 400Hz
Frequency displacement : 22.5kHz

**Standard measurement positions of volume and switch**
Power : Standby (Light STANDBY Indicator)
Sound mode : Off
SA-Bass : Off
Main VOL. : 0 Minimum
Travers mecha set position : Disc 1

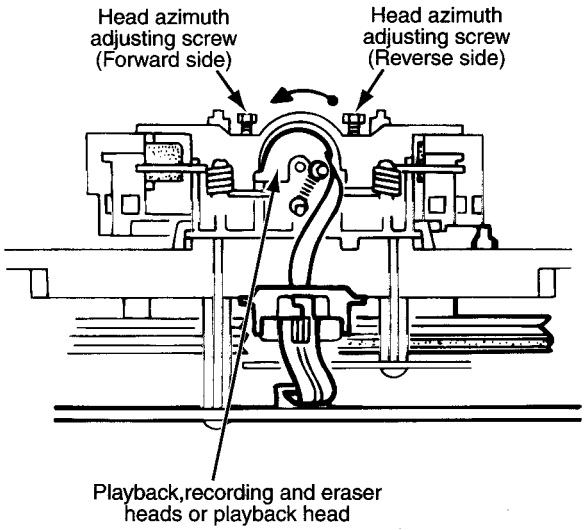
**Precautions for Measurement**
1. Apply 30pF and 33kΩ to the IF sweeper output side and 0.082μF and 100kΩ in series to the sweeper input side.
2. The IF sweeper output level should be made as low as possible within the adjustable range.
3. Since the IF sweeper is a fixed device, there is no need to adjust this sweeper.
4. Since a ceramic oscillator is used, there is no need to perform any MPX adjustment.
5. Since a fixed coil is used, there is no need to adjust the FM tracking.
6. The input and output earth systems are separated. In case of simultaneously measuring the voltage in both of the input and output systems with an electronic voltmeter for two channels, therefore, the earth should be connected particularly.
7. In the case of BTL connection amplifier, the minus terminal of speaker is not for earthing. Therefore, be sure not to connect any other earth terminal to this terminal. This system is of an OTL system.

## ■Arrangement of Adjusting Positions

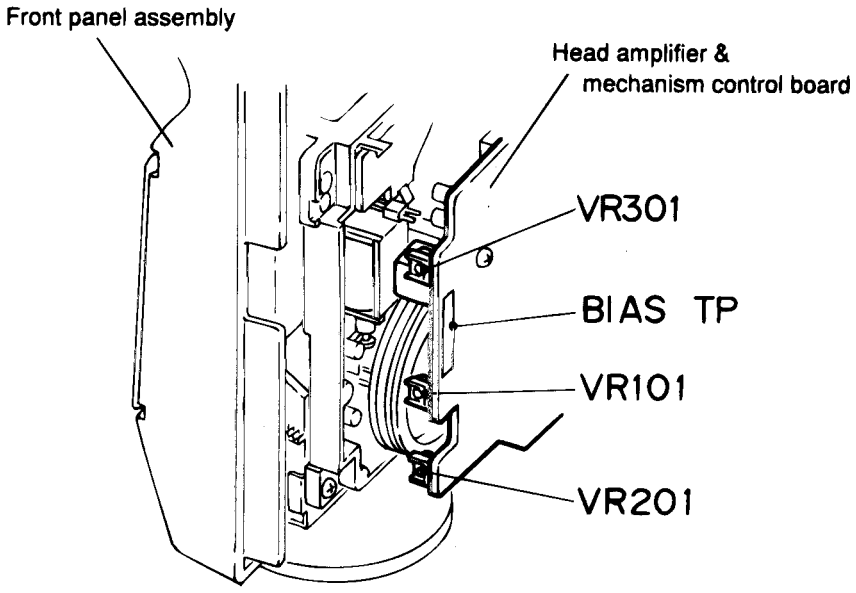
Cassette mechanism section (Mechanism A section)




Cassette mechanism section (Back side)




Cassette Mechanism Unit Section



## ■Tape Recorder Section

| Items | Measurement conditions | Measurement method | Standard values | Adjusting positions |
|---|---|---|---|---|
| Confirmation of head angle | Test tape<br>:TMT7036(10kHz)<br>Measurement output terminal<br>:Speaker terminal<br>Speaker R<br>(Load resistor:3Ω)<br>:Headphone terminal | 1.Playback the test tape TMT7036(10kHz).<br>2.With the playback mechanism or recording & playback mechanism, adjust the head azimuth screw so that the forward and reverse output levels become maximum.After adjustment,lock the head azimuth at least by half a turn.<br>3.In either case,this adjustment should be performed in both the forward and reverse directions with the head azimuth screw. | Maximum output | Adjust the head azimuth screw only when the head has been changed. |
| Confirmation of tape speed | Test tape<br>:VTT712(3kHz) or TMT7036(3kHz)<br>Measurement output terminal<br>:Headphone terminal | <Constant speed><br>Adjust VR301 so that the frequency counter reading becomes 3,010Hz±15Hz when playing back the test tape VTT712(3kHz)with the playback mechanism or playback and recording mechanism after ending forward winding of the tape. | Tape speed of decks (A and B)<br>:3,010Hz<br>±15Hz | VR301 |

## ■Reference Values for Confirmation items

| Items | Measurement conditions | Measurement method | Standard values | Adjusting positions |
|---|---|---|---|---|
| Double tape speed | Test tape<br>:TMT7036(10kHz)<br>Measurement output terminal<br>:Speaker terminal<br>Speaker R<br>(Load resistance:3Ω)<br>measurement output terminal<br>:Headphone terminal | After setting to the double speed motor, confirm that the frequency counter reading becomes 4,800+400/-300Hz when the test tape VTT712 (3kHz) has been play back with the playback mechanism. | 4,800+400/-300Hz | Playback mechanism side |
| Difference between the forward and reverse speed. P.mecha and R/P mecha speed | | When the test tape VTT712(3kHz) has been played back with the playback mechanism or recording and playback mechanism at the beginning of forward winding, the frequency counter reading of the difference between both of the mechanisms should be 6.0Hz or less. | 60Hz or less | Both the playback and recording & playback mechanism |
| Wow & flutter | Test tape<br>:TMT7036(10kHz)<br>Measurement output terminal<br>:Headphone terminal | When the test tape VTT712(3kHz) has been played back with the playback mechanism or recording and playback mechanism at the beginning of forward winding the frequency counter reading of wow & flutter should be 0.25% or less(WRMS). | 0.25% or less (WRMS) | Both the playback and recording & playback mechanism |

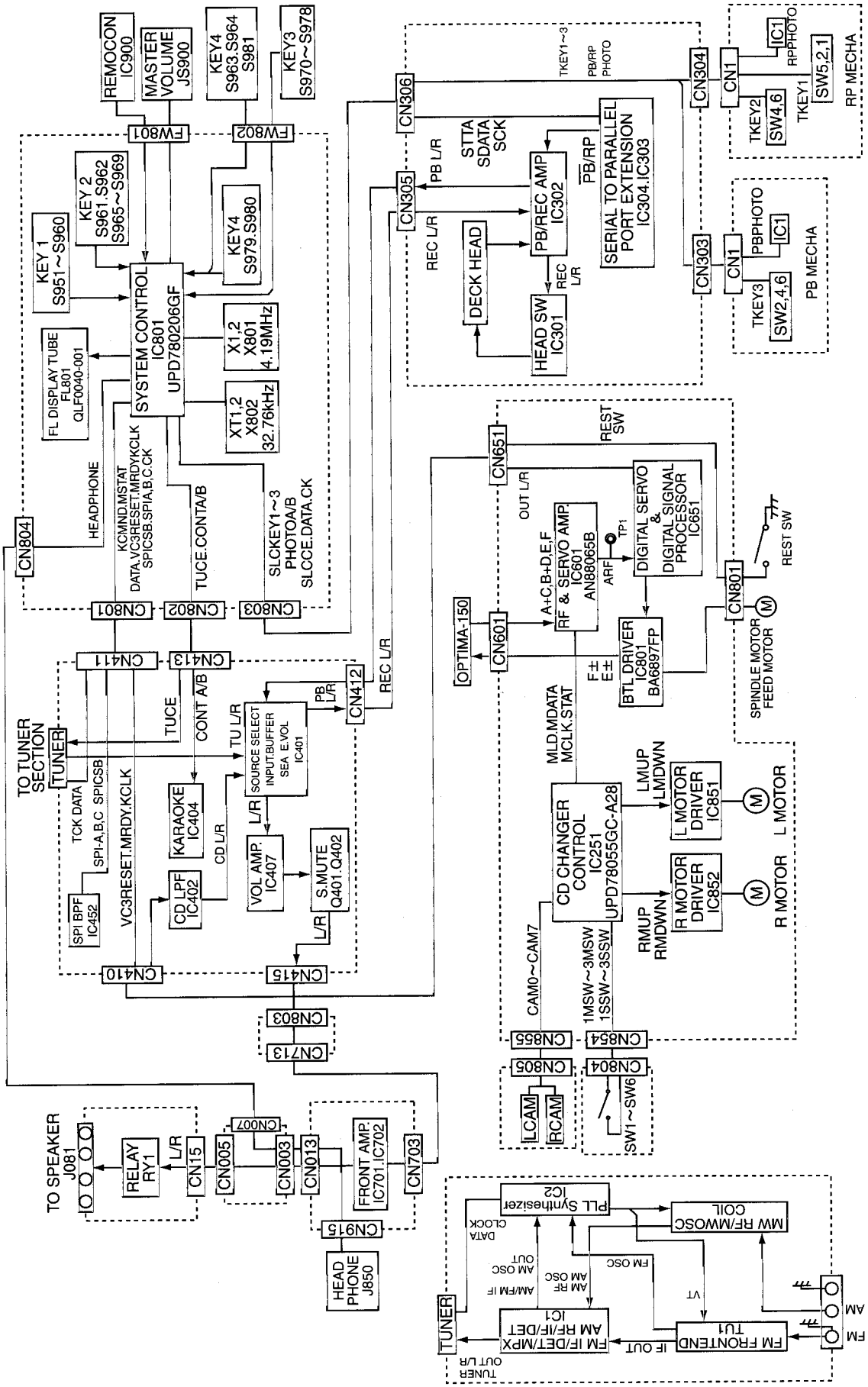
## ■Electrical Performance

| Items | Measurement conditions | Measurement method | Standard values | Adjusting positions |
|---|---|---|---|---|
| Adjustment of recording bias current (Reference value) | *Mode : Forward or reverse mode<br>*Recording mode<br>*Test tape<br>:AC-514 and AC-225<br>Measurement output terminal<br>:Both recording and headphone terminals | 1.With the recording and playback mechanism, load the test tapes(AC-514 to TYP Ⅱ and AC-225 to TYP Ⅰ),and set the mechanism to the recording and pausing conditions in advance.<br>2.After connecting 100Ω in series to the recorder head,measure the bias current with a valve voltmeter at both of the terminals.<br>3.After resetting the [PAUSE] mode,start recording. At this time,adjust VR101 for LcH and VR201 for RcH so that the recording bias current values become 4.0μA (TYP Ⅰ) and 4.20μA(TYP Ⅱ). | AC-225<br>:4.20μA<br>AC-514<br>:4.0μA | LcH<br>:VR101<br>RcH<br>:VR201 |
| Adjustment of recording and playback frequency characteristics | Reference frequency<br>:1kHz and 10kHz<br>(REF:-20dB)<br>Test tape<br>:TYP Ⅱ AC-514<br>Measurement input terminal<br>:OSC IN | 1.With the recording and playback mechanism,load the test tape(AC-514 to TYP Ⅱ),and set the mechanism to the recording and pausing condition in advance.<br>2.While repetitively inputting the reference frequency signal of 1kHz and 10kHz from OSC IN, record and playback the test tape.<br>3.While recording and playing back the test tape in TYP Ⅱ,adjust VR101 for LcH and VR201 for RcH so that the output deviation between 1kHz and 10kHz becomes -1dB±2dB. | Output deviation between 1kHz and 10kH<br>:-1dB±2dB | LcH<br>:VR101<br>RcH<br>:VR201 |

## ■Reference Values for Electrical Function Confirmation Items

| Items | Measurement conditions | Measurement method | Standard values | Adjusting positions |
|---|---|---|---|---|
| Recording bias frequency | *Recording and playback side forward or reverse<br>*Test tape<br>:TYP Ⅱ AC-514<br>*Measurement terminal BIAS TP on P.C.board | 1.While changing over to and from BIAS 1 and 2, confirm that the frequency is changed.<br>2.With the recording and playback mechanism. load the test tape (AC-514 to TYP Ⅱ),and set the mechanism to the recording and pausing conditions in advance.<br>3.Confirm that the BIAS TP frequency on the P.C.board is 100kHz±6kHz. | 100kHz<br>±6kHz | |
| Eraser current (Reference value) | *Recording and playback side forward or reverse<br>*Recording mode<br>*Test tape<br>:AC-514 and AC-225<br>Measurement terminal<br>Both of the eraser head | 1.With the recording and playback mechanism, load the test tapes(AC-514 to TYP Ⅱ and AC-225 to TYP Ⅰ),and set the mechanism to the recording and pausing condition in advance.<br>2.After setting to the recording conditions,connect 1MΩ in series to the eraser head on the recording and playback mechanism side,and measure the eraser current from both of the eraser terminal. | TYP Ⅱ<br>:120mA<br>TYP Ⅰ<br>:75mA | |

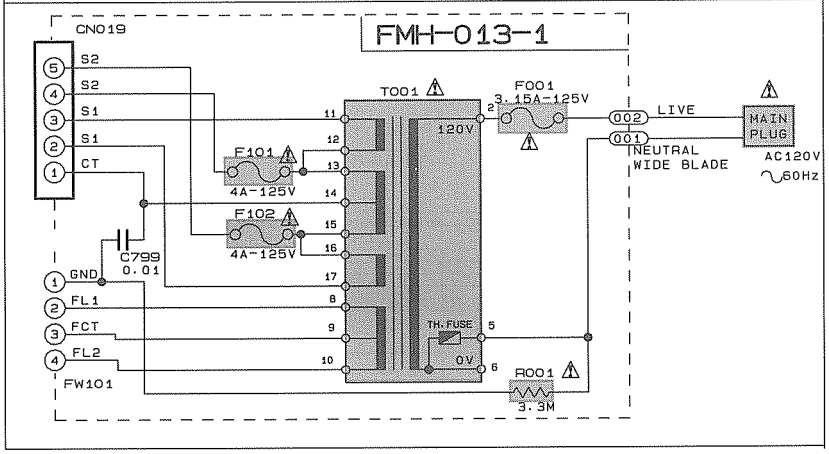
## ■Block Diagrams



## Power Transformer Section

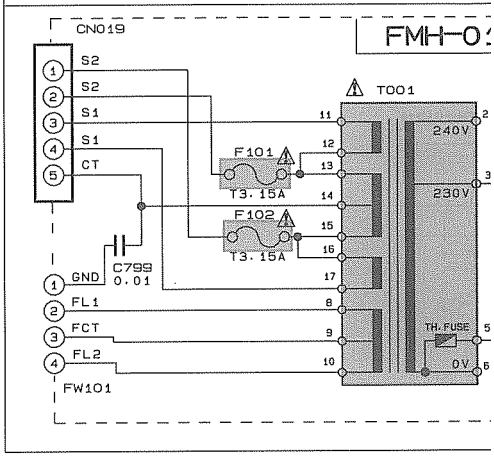
POWER SUPPLY BLOCK

J/C AC120V ~ 60Hz



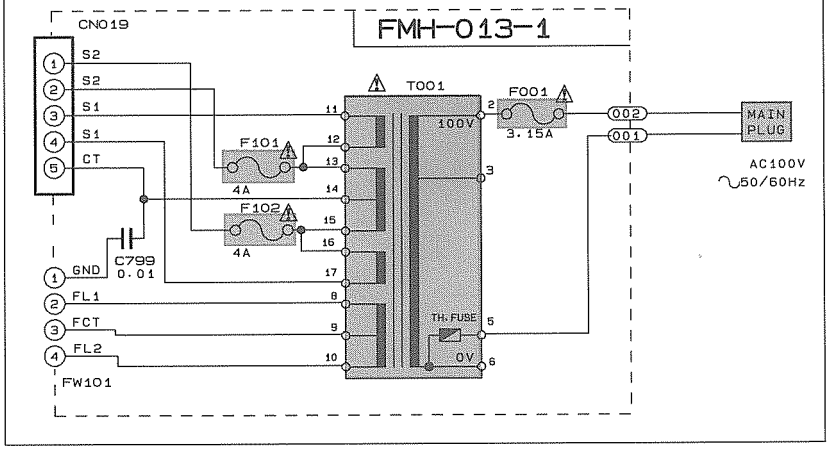

POWER SUPPLY BLOCK

B/E/EE/EN



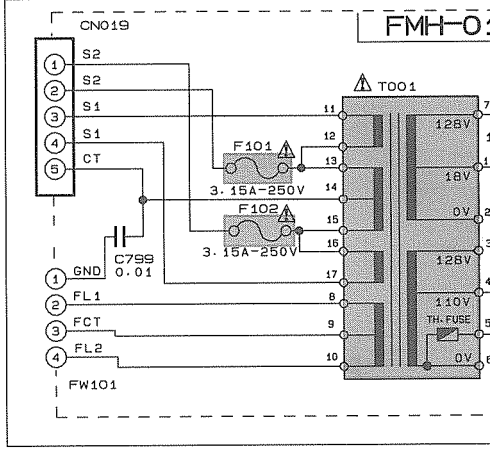

POWER SUPPLY BLOCK

DOM AC100V ~ 50Hz/60Hz



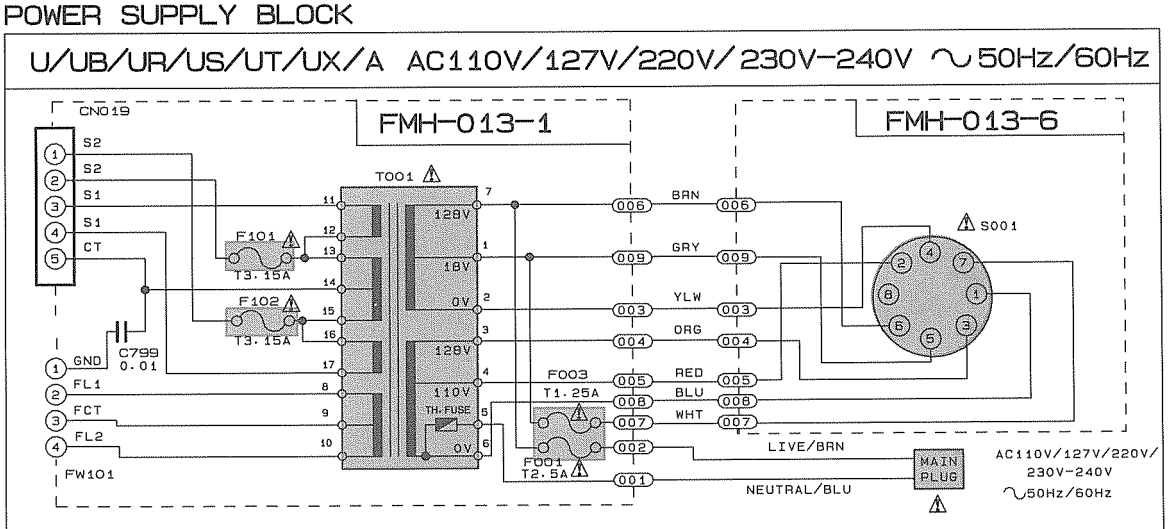

POWER SUPPLY BLOCK

UP

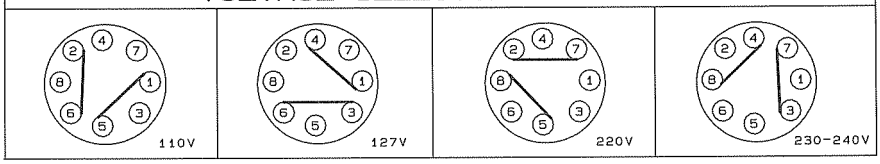


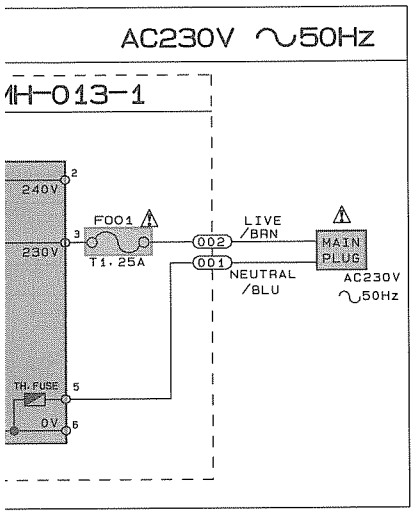

POWER SUPPLY BLOCK

U/UB/UR/US/UT/UX/A AC110V/127V/220V/230V-240V ~ 50Hz/60Hz



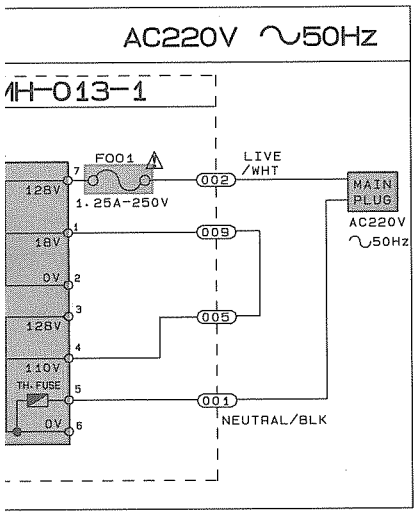

VOLTAGE SELECTOR LOCATION






VERSION CODES

| | |
|---|---|
| J | :U.S.A. |
| C | :CANADA |
| B | :U.K |
| E | :CONTINENTAL EUROPE |
| EE | :EASTERN EUROPE |
| EN | :NORDIC COUNTRIES |
| A | :AUSTRALIA |
| UB | :HONGKONG |
| UP | :KOREA |
| UR | :BRAZIL |
| US | :SINGAPORE |
| UT | :TAIWAN |
| UX | :SAUDI ARABIA |
| U | :UNIVERSIAL EXCEPT ALL OF ABOVES |
| DOM | :JAPAN |




# EXPLANATION OF OVERALL OF SCHEMA.

## MODEL MX-D402T/CA-D432TR/CA-D452TR/CA-MXD330

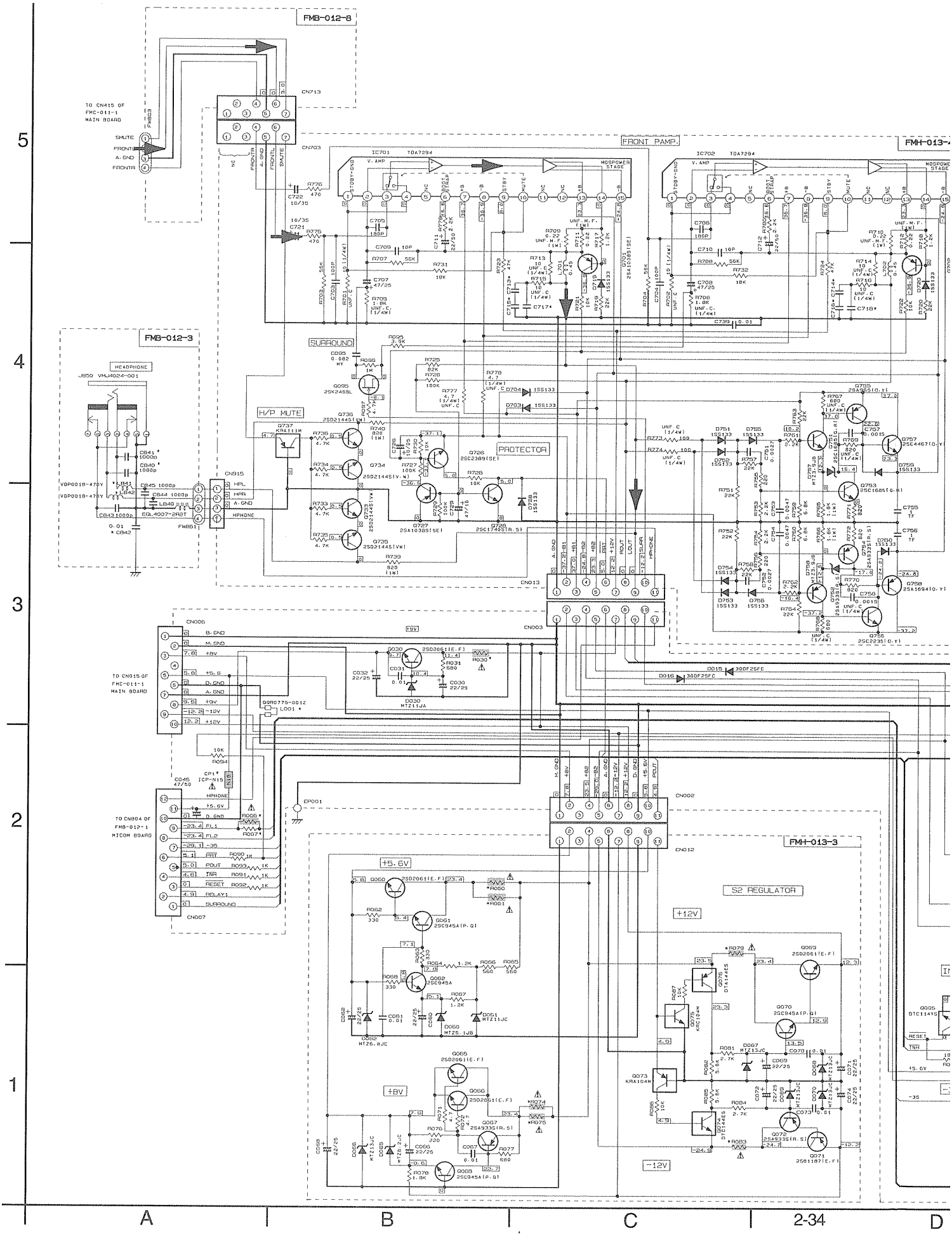
| SHEET NUMBER | MODEL NUMBERS TO BE APPLIED | CIRCUITS DESCRIPTION |
|---|---|---|
| 1/11 | MX-D402T/CA-D432TR CA-D452TR/CA-MXD330 | .PRIMARY WITH MAINS TRANSFORMER |
| 2/11 | MX-D402T/CA-D432TR CA-D452TR/CA-MXD330 | .DC REGULATORS/AUDIO OUTPUT |
| 3/11 | MX-D402T/CA-D432TR CA-D452TR/CA-MXD330 | .EXTERNAL INPUT, SOURCE SELECTOR SWITCH |
| 4/11 | MX-D402T/CA-MXD330 | .TUNER RF/IF/FM MULTIPLEX (ONLY FOR J,C,U,UB,UP,UR,US,UT,UX,A,DOM) |
| 5/11 | CA-D432TR/CA-D452TR | .TUNER RF/IF/FM MULTIPLEX (ONLY FOR E,EN,B) |
| 6/11 | CA-D452TR | .TUNER RF/IF/FM MULTIPLEX (ONLY FOR EE) |
| 7/11 | CA-D452TR | .POLAR STEREO MULTIPLEX (ONLY FOR EE) |
| 8/11 | MX-D402T/CA-D432TR CA-D452TR/CA-MXD330 | .FL DISPLAY, SYSTEM CONTROL LSI, USER CONTROL KEYS |
| 9/11 | MX-D402T | .MIC AMP, ECHO CIRCUIT (ONLY FOR U,UB,UP,UR,US,UT,UX,A) |
| 10/11 | MX-D402T/CA-D432TR CA-D452TR/CA-MXD330 | .TAPE DECK MECHANISM CONTROL<br>.TAPE CIRCUITS SUCH AS PRE-AMP AND BIAS |
| 11/11 | MX-D402T/CA-D432TR CA-D452TR/CA-MXD330 | .CD SERVO AND CD SYSTEM CONTROL<br>.CD CHANGER MECHANISM CONTROL |

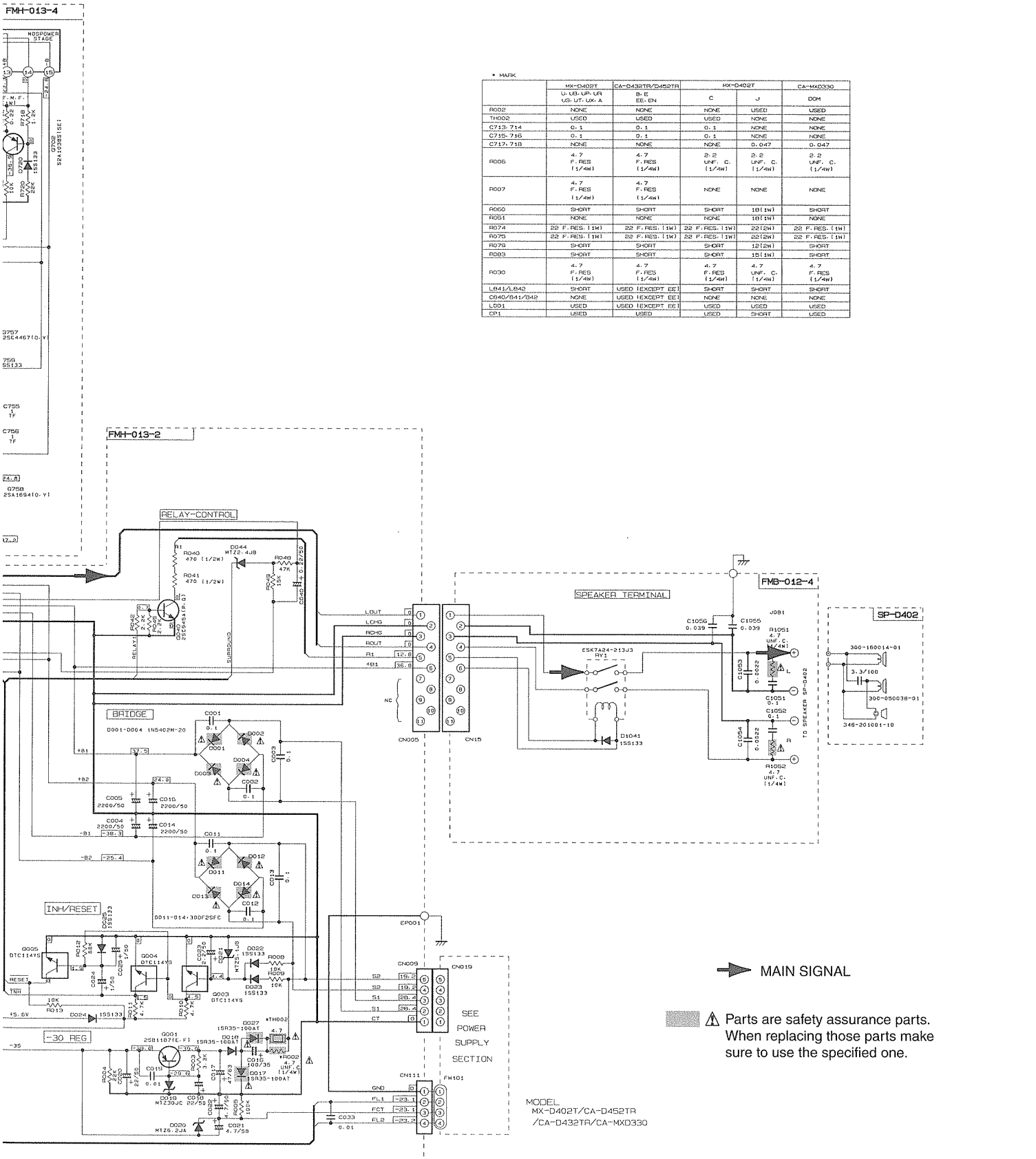
NOTES: MARK [*] IS TO SHOW DEVIATION IN VERSIONS.
DETAILS ARE EXPLAINED NEAR THE MARK.

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

MODEL MX-D402T/CA-D432TR
CA-D452TR/CA-MXD330

## Power Amplifier & Regulator Section



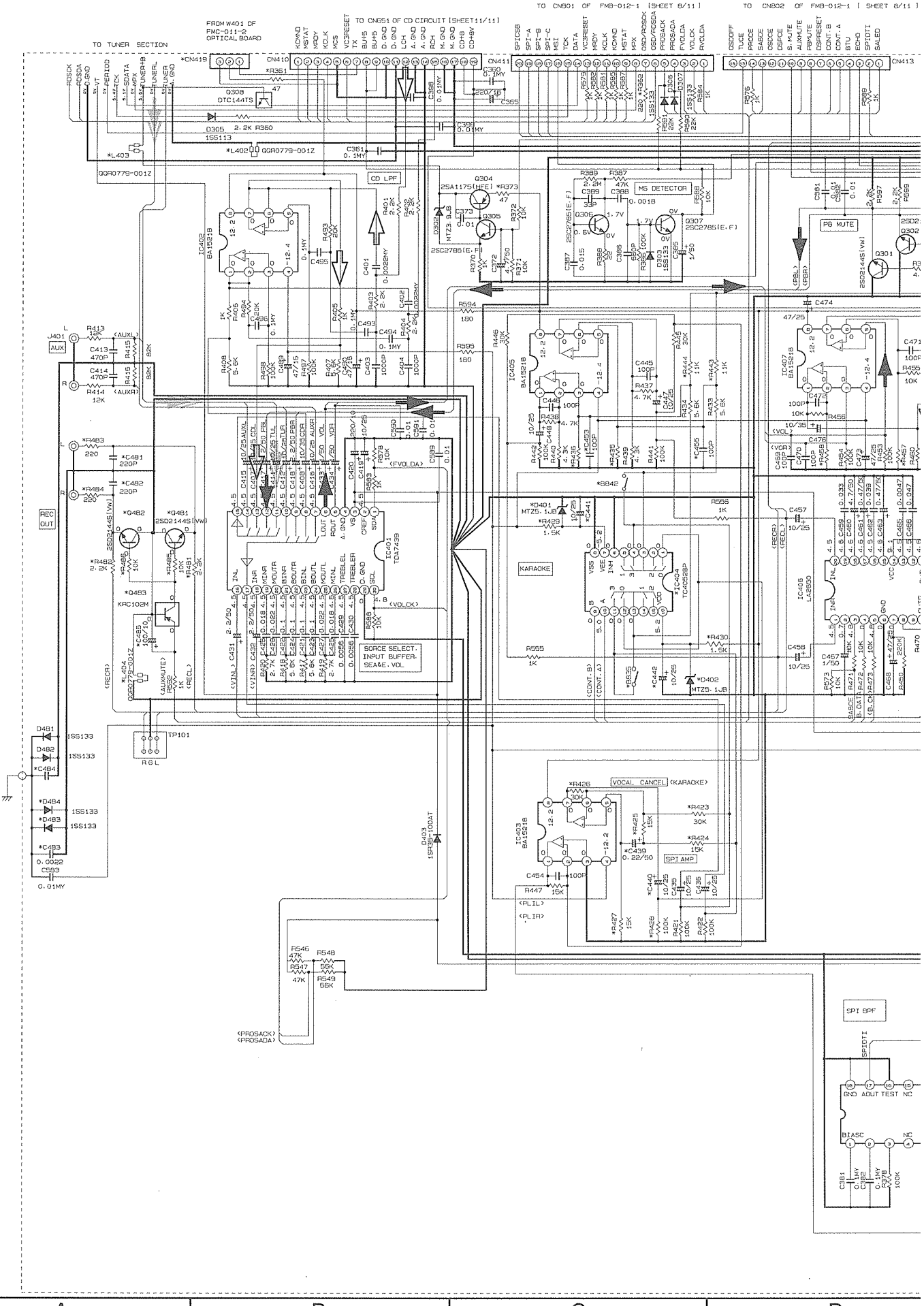


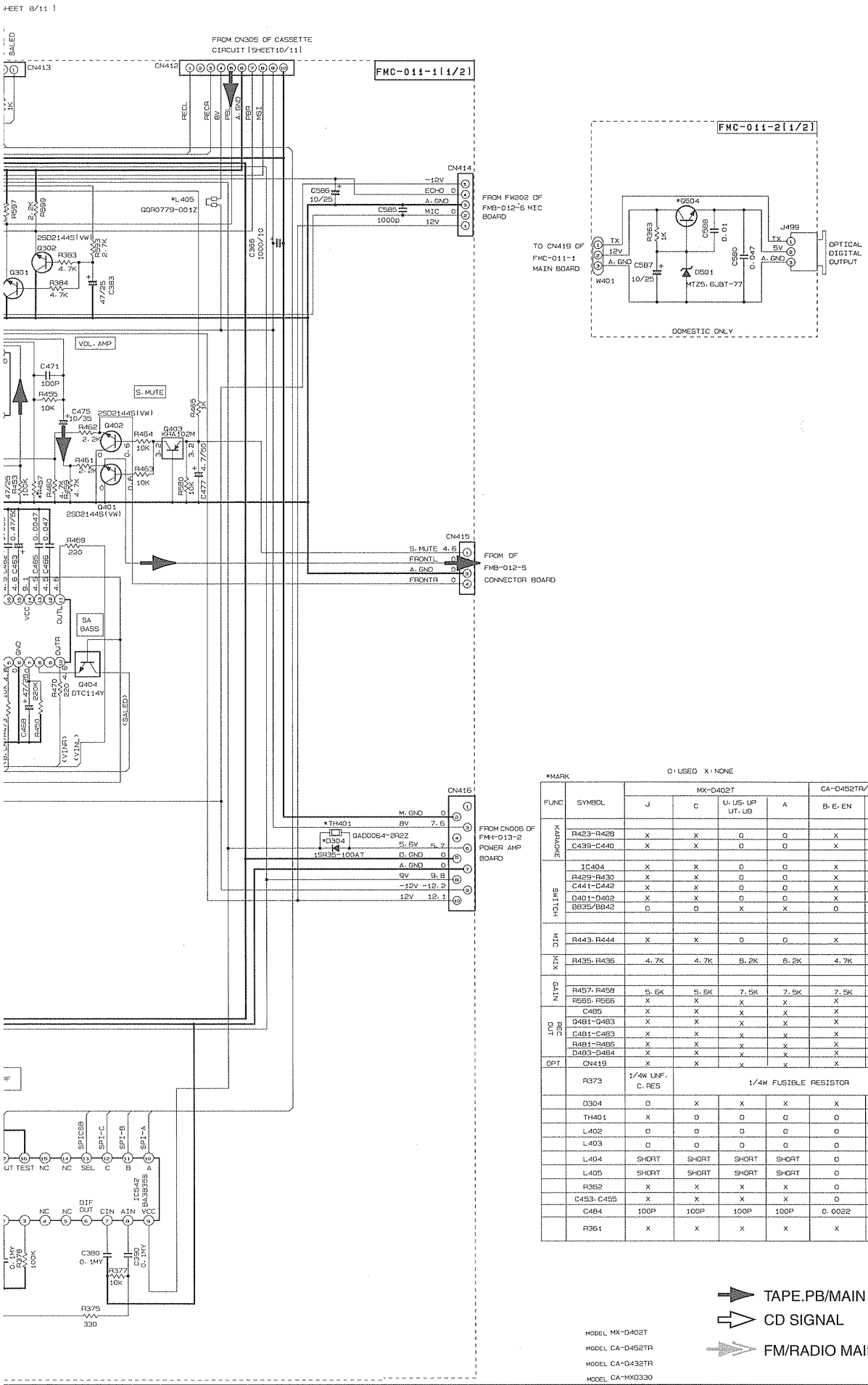

* MARK

| | MX-D402T U, UB, UP, UR UG, UT, UX, A | CA-D432TR/D452TR B, E EE, EN | MX-D402T C | MX-D402T J | CA-MXD330 DOM |
|---|---|---|---|---|---|
| R002 | NONE | NONE | NONE | USED | USED |
| TH002 | USED | USED | USED | NONE | NONE |
| C713, 714 | 0.1 | 0.1 | 0.1 | NONE | NONE |
| C715, 716 | 0.1 | 0.1 | 0.1 | NONE | NONE |
| C717, 718 | NONE | NONE | NONE | 0.047 | 0.047 |
| R006 | 4.7 F.RES (1/4W) | 4.7 F.RES (1/4W) | 2.2 UNF. C. (1/4W) | 2.2 UNF. C. (1/4W) | 2.2 UNF. C. (1/4W) |
| R007 | 4.7 F.RES (1/4W) | 4.7 F.RES (1/4W) | NONE | NONE | NONE |
| R060 | SHORT | SHORT | SHORT | 18(1W) | SHORT |
| R061 | NONE | NONE | NONE | 18(1W) | NONE |
| R074 | 22 F.RES.(1W) | 22 F.RES.(1W) | 22 F.RES.(1W) | 22(2W) | 22 F.RES.(1W) |
| R075 | 22 F.RES.(1W) | 22 F.RES.(1W) | 22 F.RES.(1W) | 22(2W) | 22 F.RES.(1W) |
| R078 | SHORT | SHORT | SHORT | 12(2W) | SHORT |
| R083 | SHORT | SHORT | SHORT | 15(1W) | SHORT |
| R030 | 4.7 F.RES (1/4W) | 4.7 F.RES (1/4W) | 4.7 F.RES (1/4W) | 4.7 UNF. C. (1/4W) | 4.7 F.RES (1/4W) |
| L841/L842 | SHORT | USED (EXCEPT EE) | SHORT | SHORT | SHORT |
| C840/841/842 | NONE | USED (EXCEPT EE) | NONE | NONE | NONE |
| L001 | USED | USED (EXCEPT EE) | USED | USED | USED |
| CP1 | USED | USED | USED | SHORT | USED |

D | E | F | G | H

## Function & Volume Amplifier Section






*MARK

O:USED X:NONE

| FUNC | SYMBOL | MX-D402T J | MX-D402T C | MX-D402T U.US.UP UT.UB | MX-D402T A | CA-D452TR/D432TR B.E.EN | CA-D452TR/D432TR EE | CA-MXD330 DOM |
|---|---|---|---|---|---|---|---|---|
| KARAOKE | R423-R428 | X | X | O | O | X | X | X |
| | C439-C440 | X | X | O | O | X | X | X |
| SWITCH | IC404 | X | X | O | O | X | X | X |
| | R429-R430 | X | X | O | O | X | X | X |
| | C441-C442 | X | X | O | O | X | X | X |
| | D401-D402 | X | X | O | O | X | X | X |
| | B835/B842 | O | O | X | X | O | O | O |
| MIC | R443.R444 | X | X | O | O | X | X | X |
| MIX | R435.R436 | 4.7K | 4.7K | 8.2K | 8.2K | 4.7K | 4.7K | 4.7K |
| GAIN | R457.R458 | 5.6K | 5.6K | 7.5K | 7.5K | 7.5K | 7.5K | 7.5K |
| | R565.R566 | X | X | X | X | X | X | X |
| REC OUT | C485 | X | X | X | X | X | X | O |
| | Q481-Q483 | X | X | X | X | X | X | O |
| | C481-C483 | X | X | X | X | X | X | O |
| | R481-R486 | X | X | X | X | X | X | O |
| | D483-D484 | X | X | X | X | X | X | O |
| OPT | CN419 | X | X | X | X | X | X | O |
| | R373 | 1/4W UNF. C.RES | 1/4W FUSIBLE RESISTOR | | | | | |
| | D304 | O | X | X | X | X | X | X |
| | TH401 | X | O | O | O | O | O | O |
| | L402 | O | O | O | O | O | SHORT | O |
| | L403 | O | O | O | O | O | SHORT | O |
| | L404 | SHORT | SHORT | SHORT | SHORT | O | O | SHORT |
| | L405 | SHORT | SHORT | SHORT | SHORT | O | SHORT | SHORT |
| | R362 | X | X | X | X | O | O | X |
| | C453.C455 | X | X | X | X | O | X | X |
| | C484 | 100P | 100P | 100P | 100P | 0.0022 | 100P | 100P |
| | R361 | X | X | X | X | X | X | 1/4W FUSIBLE RESISTOR |

TAPE.PB/MAIN SIGNAL

CD SIGNAL

FM/RADIO MAIN SIGNAL

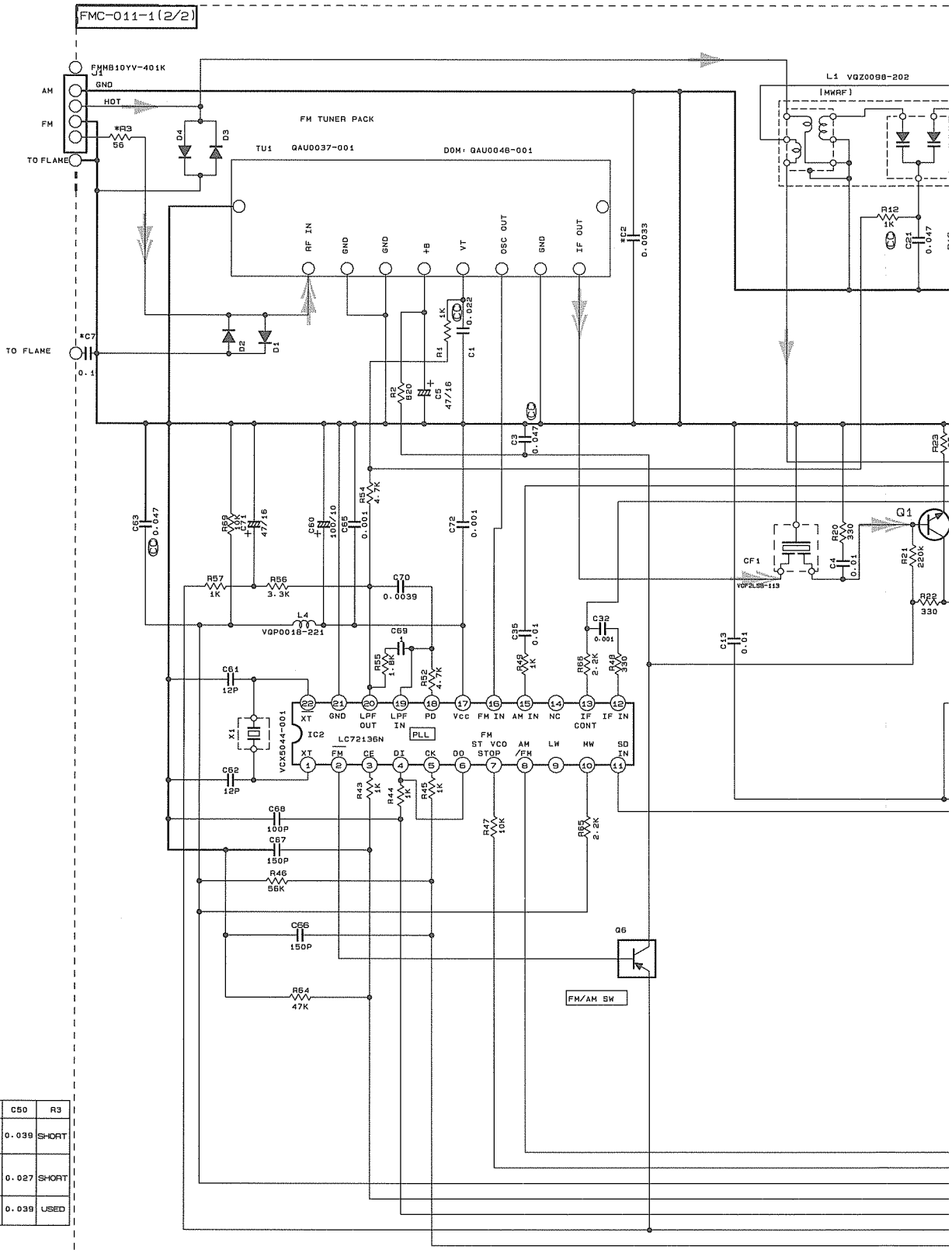
MODEL MX-D402T

MODEL CA-D452TR

MODEL CA-D432TR

MODEL CA-MXD330

## Tuner Section (For Ver.E/EN.B)




*MARK

| | C2, C7 | C49 | C50 | R3 |
|---|---|---|---|---|
| J, C | USED | 0.039 | 0.039 | SHORT |
| DDM | SHORT | 0.027 | 0.027 | SHORT |
| U, A | SHORT | 0.039 | 0.039 | USED |

| | CONDITION PIN NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IC1 | FM NO SIGNAL | 2.0 | 0.5 | 0 | 2.0 | 5.2 | 5.2 | 0 | 0 | 0.2 | 5.2 | 5.2 | 1.0 | 1.0 | 4.6 | 3.8 | 3.8 | 1.4 | 0 | 1.3 | 1.1 | 2.0 | 2.0 | 5.2 | 2.0 |
| | FM 60dB STEREO | 2.0 | 0.5 | 0 | 2.0 | 5.2 | 5.2 | 1.1 | 0 | 0.2 | 0 | 0 | 1.0 | 1.0 | 4.5 | 4.1 | 3.9 | 1.4 | 0 | 1.2 | 1.1 | 2.0 | 2.0 | 5.2 | 2.0 |
| | AM NO SIGNAL | 2.0 | 0.5 | 0 | 2.0 | 5.0 | 5.2 | 0 | 0 | 0.2 | 5.2 | 5.2 | 1.0 | 1.0 | 4.8 | 2.2 | 0 | 1.4 | 1.4 | 1.5 | 1.6 | 2.0 | 2.0 | 5.2 | 2.0 |
| IC2 | FM NO SIGNAL | 2.7 | 0 | 0 | 4.9 | 4.9 | 4.9 | 3.8 | 3.8 | 2.0 | 4.1 | 5.2 | 0 | 0 | 0 | 0 | 2.6 | 5.2 | 1.0 | 1.0 | 3.7 | 0 | 2.7 | | |

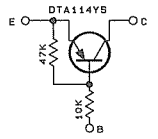
| T |
|---|
| PI |
| FM 87.5 |
| AM 522K |
| T |
| PI |
| AM 522K |
| AM 144K |

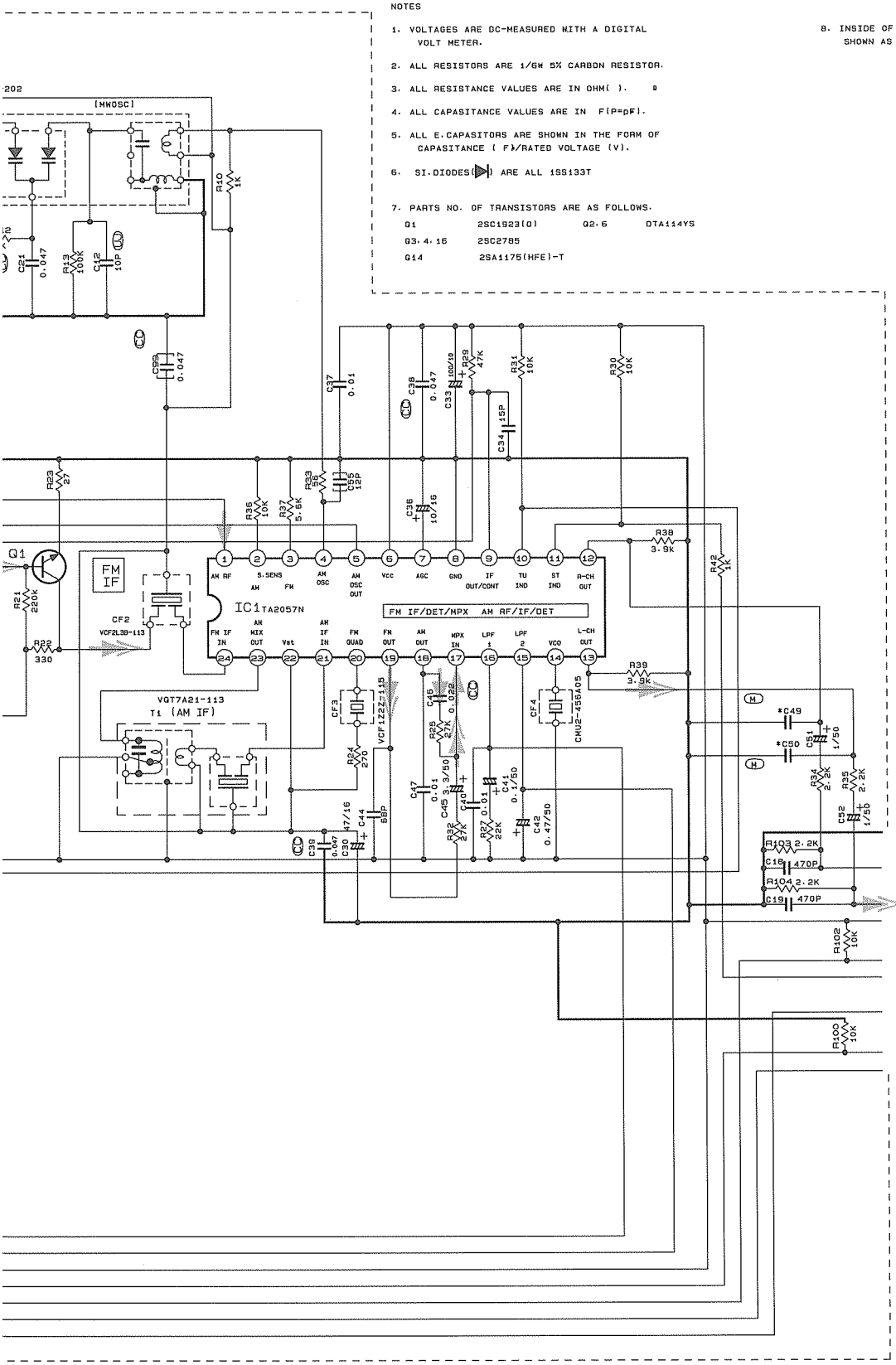
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/6W 5% CARBON RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM( ).
4. ALL CAPASITANCE VALUES ARE IN F(P=pF).
5. ALL E.CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE ( F)/RATED VOLTAGE (V).
6. SI.DIODES( ) ARE ALL 1SS133T
7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.

| | | | |
|---|---|---|---|
| Q1 | 2SC1923(O) | Q2.6 | DTA114YS |
| Q3.4.16 | 2SC2785 | | |
| Q14 | 2SA1175(HFE)-T | | |

8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.



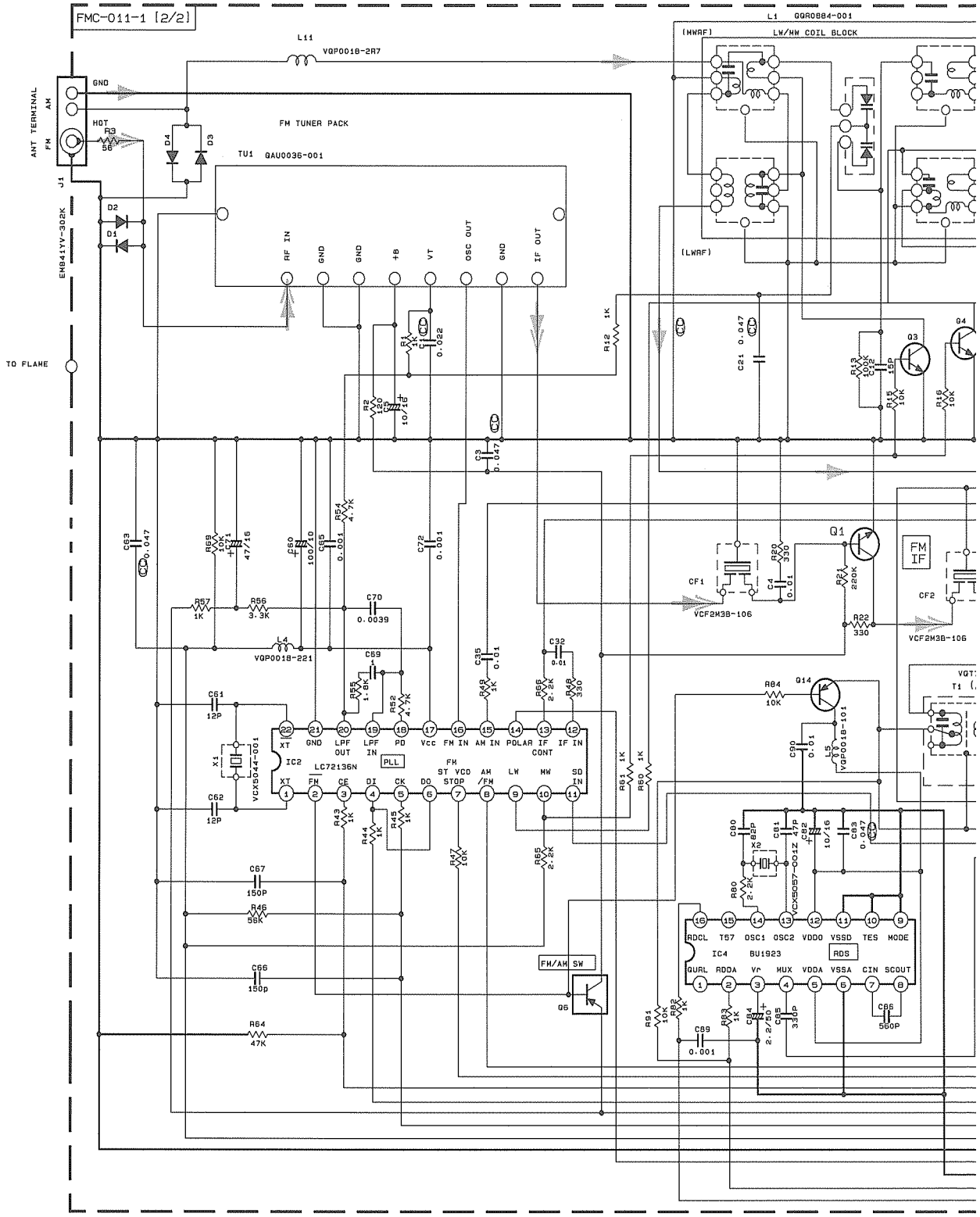

| Tr NO. | Q1 | | | Q6 | | | Q16 | | |
|---|---|---|---|---|---|---|---|---|---|
| PIN NO. | E | C | B | E | C | B | E | C | B |
| FM 87.5MHz NO SIGNAL | 0 | 8.3 | 0.8 | 9.8 | 9.7 | 0 | 1.0 | 3.5 | 1.6 |
| AM 522KHz NO SIGNAL | 0 | 0 | 0 | 9.8 | 0 | 9.7 | 1.0 | 3.5 | 1.6 |
| Tr NO. | Q2 | | | Q3 | | | Q4 | | |
| PIN NO. | E | C | B | E | C | B | E | C | B |
| AM 522KHz NO SIGNAL | 2.0 | 2.0 | 0.1 | 0 | 0 | 0.7 | 0 | 0 | 0.7 |
| AM 144KHz NO SIGNAL | 2.0 | 2.0 | 2.0 | 0 | 0 | 0.1 | 0 | 0 | 0.1 |

AM RADIO SIGNAL
FM/RADIO MAIN SIGNAL

J/C/U/A/DOM
MX-D402T
CA-MXD330

D | E | F | G | H

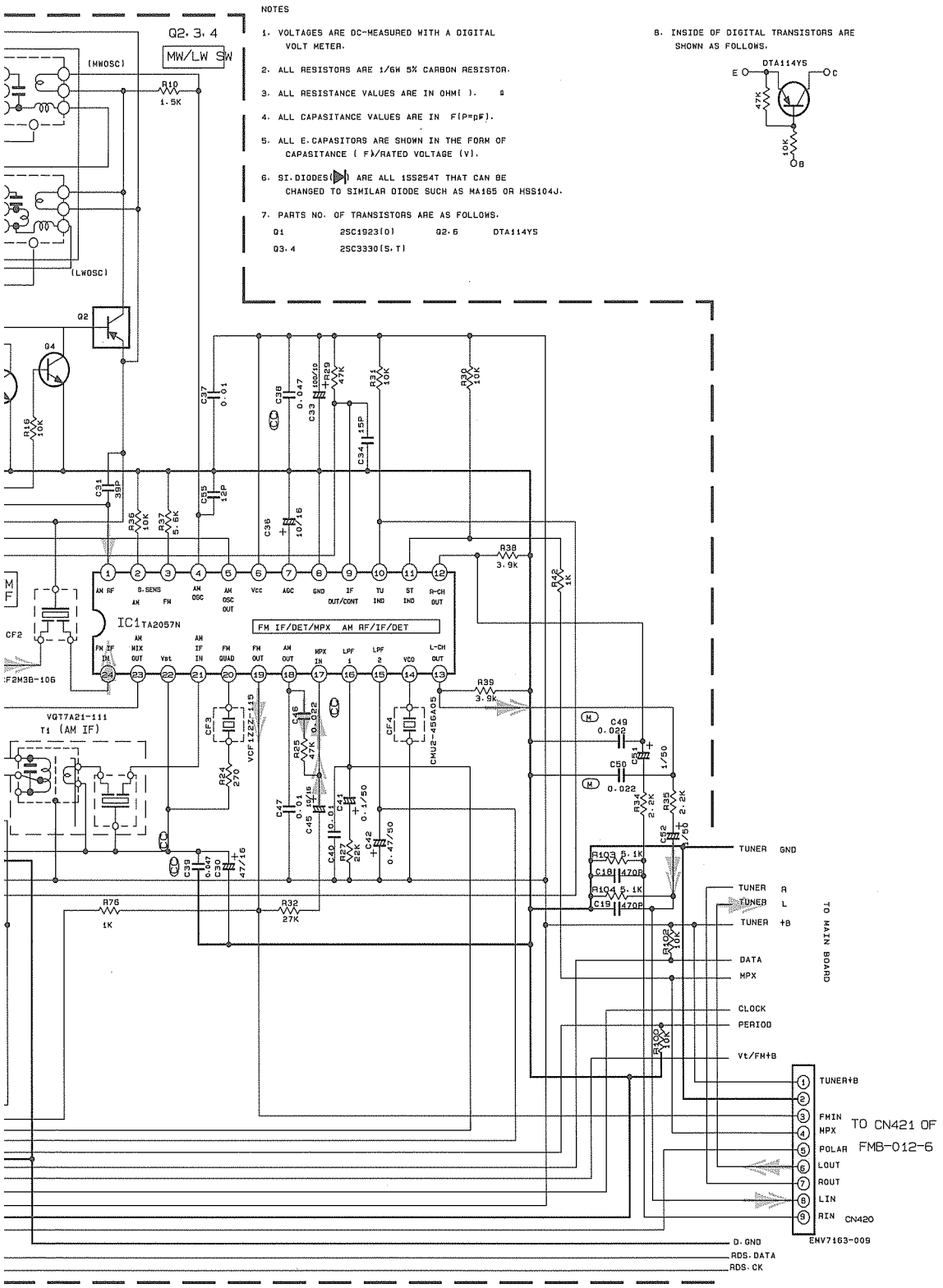
## ■ Tuner Section (For Ver.EE)




| | CONDITION PIN NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IC1 | FM NO SIGNAL | 2.0 | 0.5 | 0 | 2.0 | 5.2 | 5.2 | 0 | 0 | 0.2 | 5.2 | 5.2 | 1.0 | 1.0 | 4.6 | 3.8 | 3.8 | 1.4 | 0 | 1.3 | 1.1 | 2.0 | 2.0 | 5.2 | 2.0 |
| | FM 60dB STEREO | 2.0 | 0.5 | 0 | 2.0 | 5.2 | 5.2 | 1.1 | 0 | 0.2 | 0 | 0 | 1.0 | 1.0 | 4.5 | 4.1 | 3.9 | 1.4 | 0 | 1.2 | 1.1 | 2.0 | 2.0 | 5.2 | 2.0 |
| | AM NO SIGNAL | 2.0 | 0.5 | 0 | 2.0 | 5.0 | 5.2 | 0 | 0 | 0.2 | 5.2 | 5.2 | 1.0 | 1.0 | 4.8 | 2.2 | 0 | 1.4 | 1.4 | 1.5 | 1.6 | 2.0 | 2.0 | 5.2 | 2.0 |
| IC2 | FM NO SIGNAL | 2.7 | 0 | 0 | 4.9 | 4.9 | 4.9 | 3.8 | 3.8 | 2.0 | 4.1 | 5.2 | 0 | 0 | 0 | 0 | 2.6 | 5.2 | 1.0 | 1.0 | 3.7 | 0 | 2.7 | | |

| Tr NO. | |
|---|---|
| PIN NO. | E |
| FM 87.5MHz NO SIGNAL | 0 |
| AM 522KHz NO SIGNAL | 0 |

| Tr NO. | |
|---|---|
| PIN NO. | E |
| AM 522KHz NO SIGNAL | 2.0 |
| AM 144KHz NO SIGNAL | 2.0 |




| | Q1 | | | Q6 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | E | C | B | E | C | B | E | C | B |
| IGNAL | 0 | 8.3 | 0.8 | 9.8 | 9.7 | 0 | | | |
| GNAL | 0 | 0 | 0 | 9.8 | 0 | 9.7 | | | |
| | Q2 | | | Q3 | | | Q4 | | |
| | E | C | B | E | C | B | E | C | B |
| GNAL | 2.0 | 2.0 | 0.1 | 0 | 0 | 0.7 | 0 | 0 | 0.7 |
| GNAL | 2.0 | 2.0 | 2.0 | 0 | 0 | 0.1 | 0 | 0 | 0.1 |

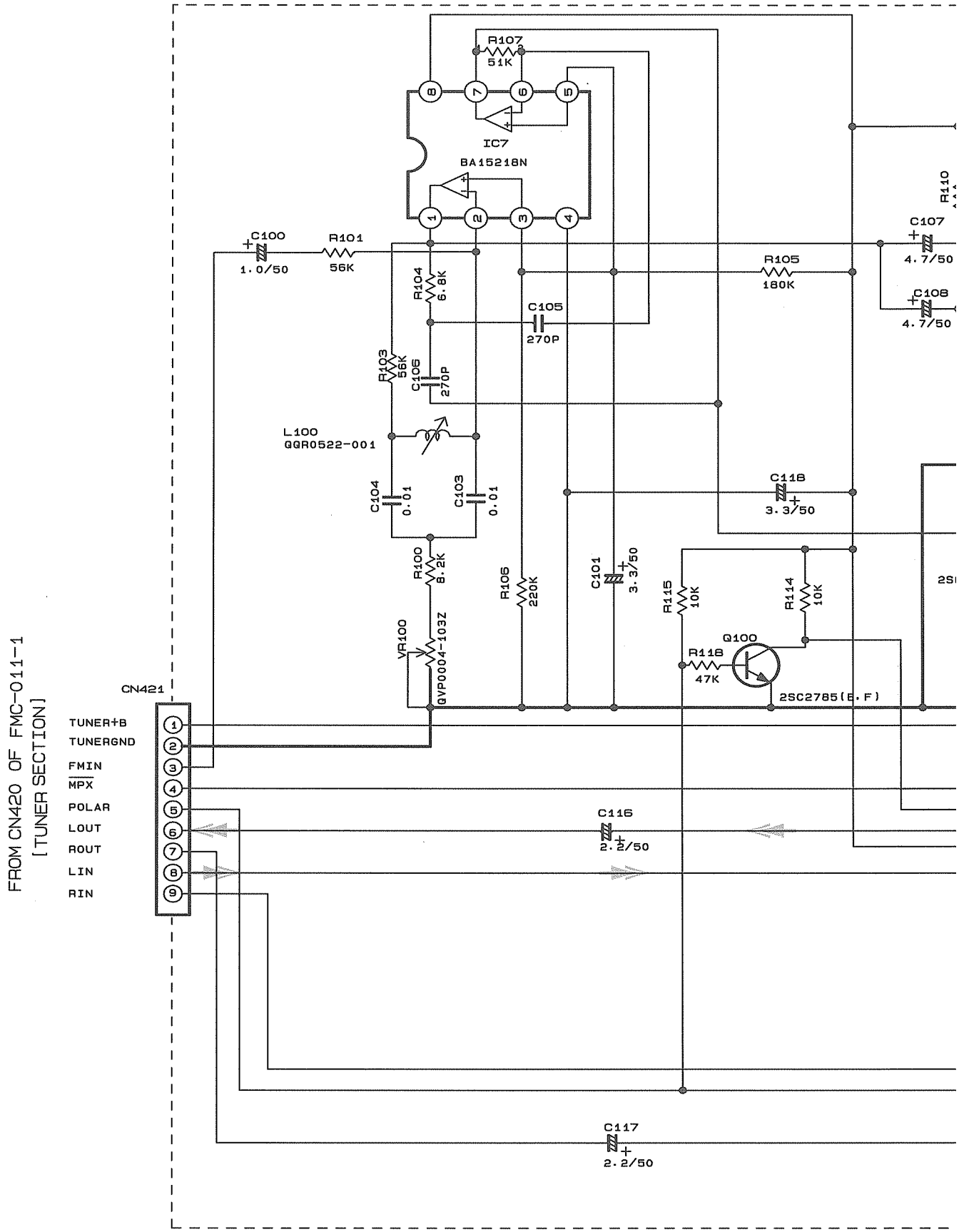
AM RADIO SIGNAL

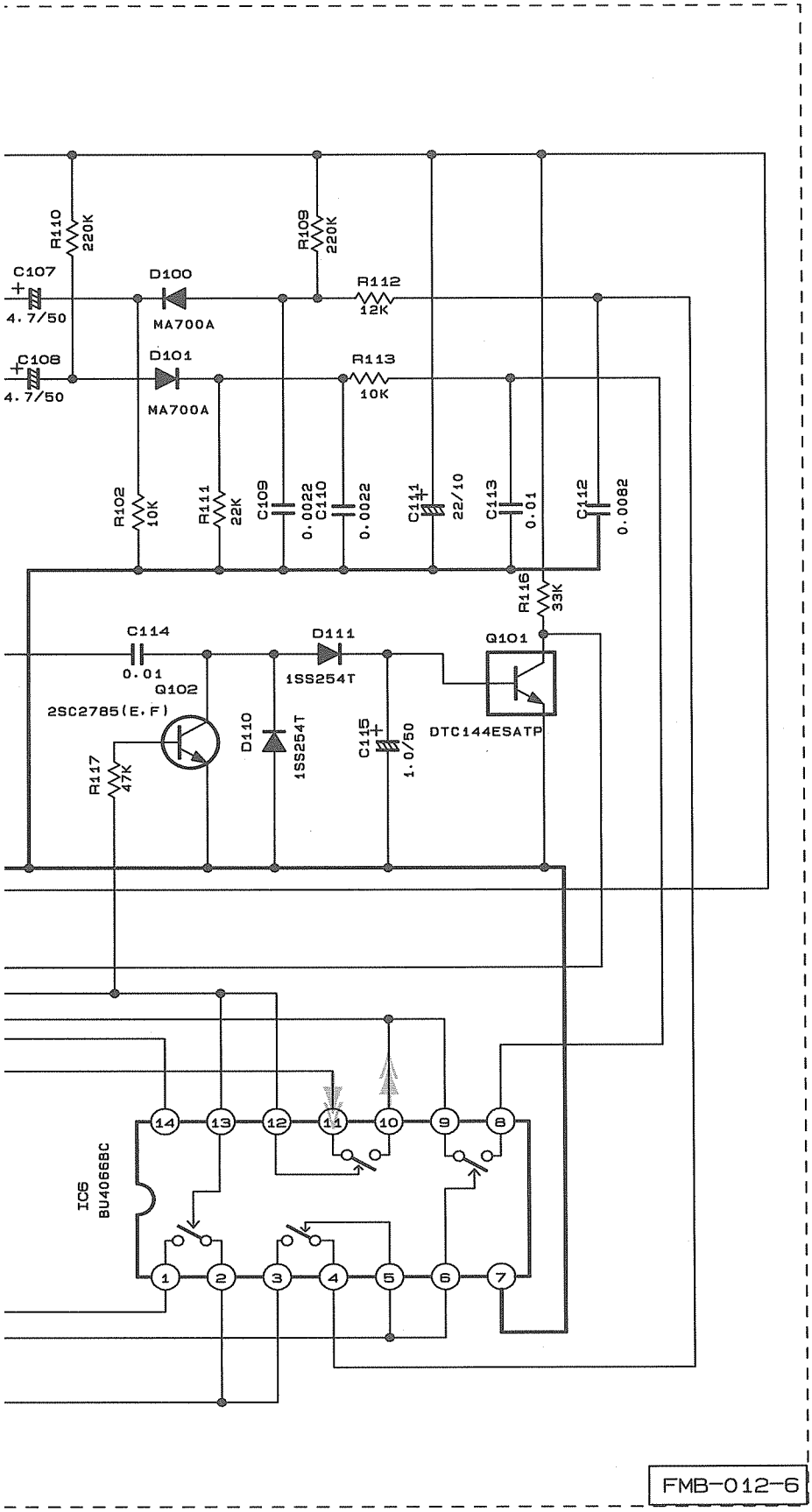
FM/RADIO MAIN SIGNAL

EE

CA-D452TR

## ■ FM Detect Section (For Ver.EE)






FMB-012-6

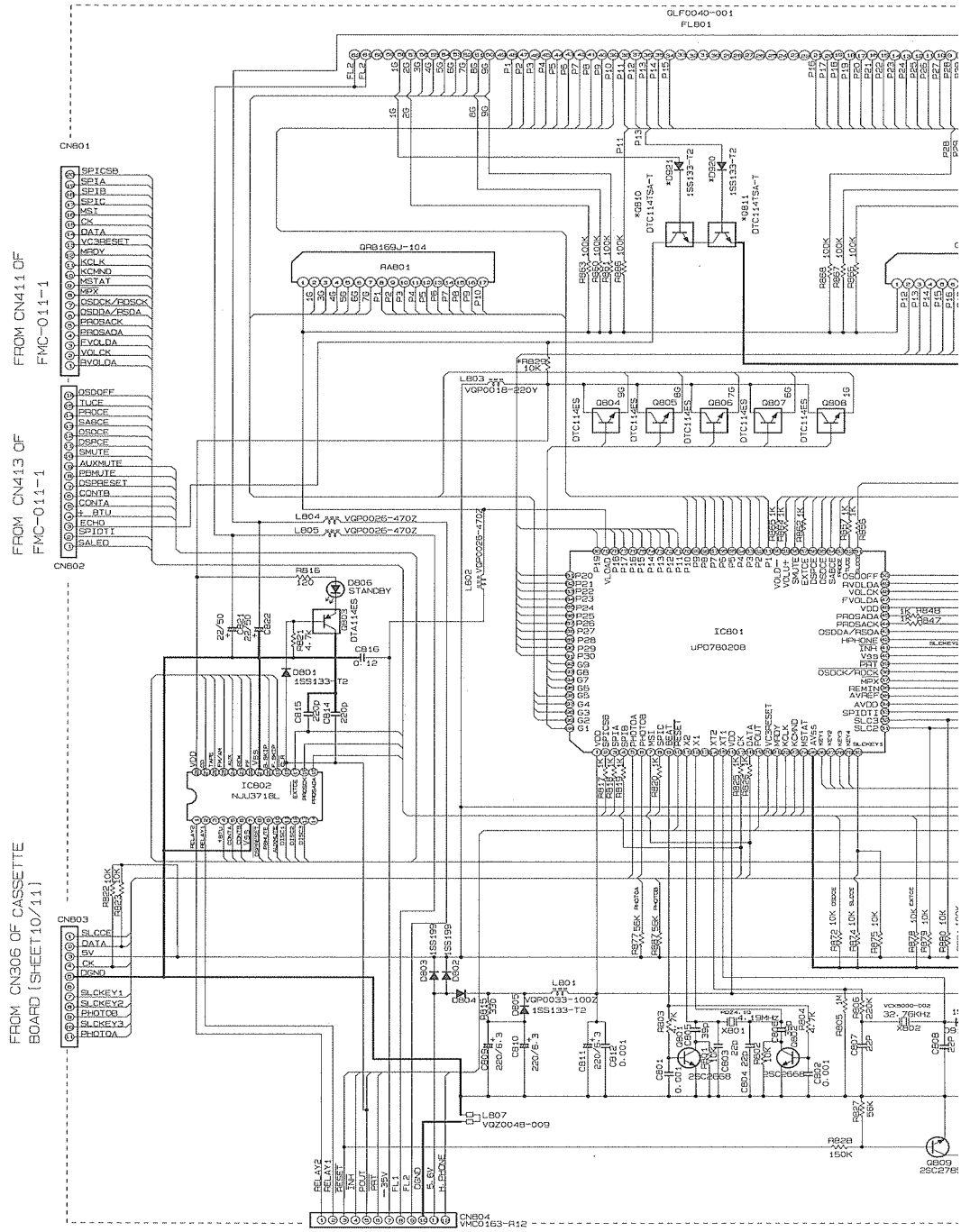
EE

CA-D452TR
CA-D752TR

RADIO MAIN SIGNAL

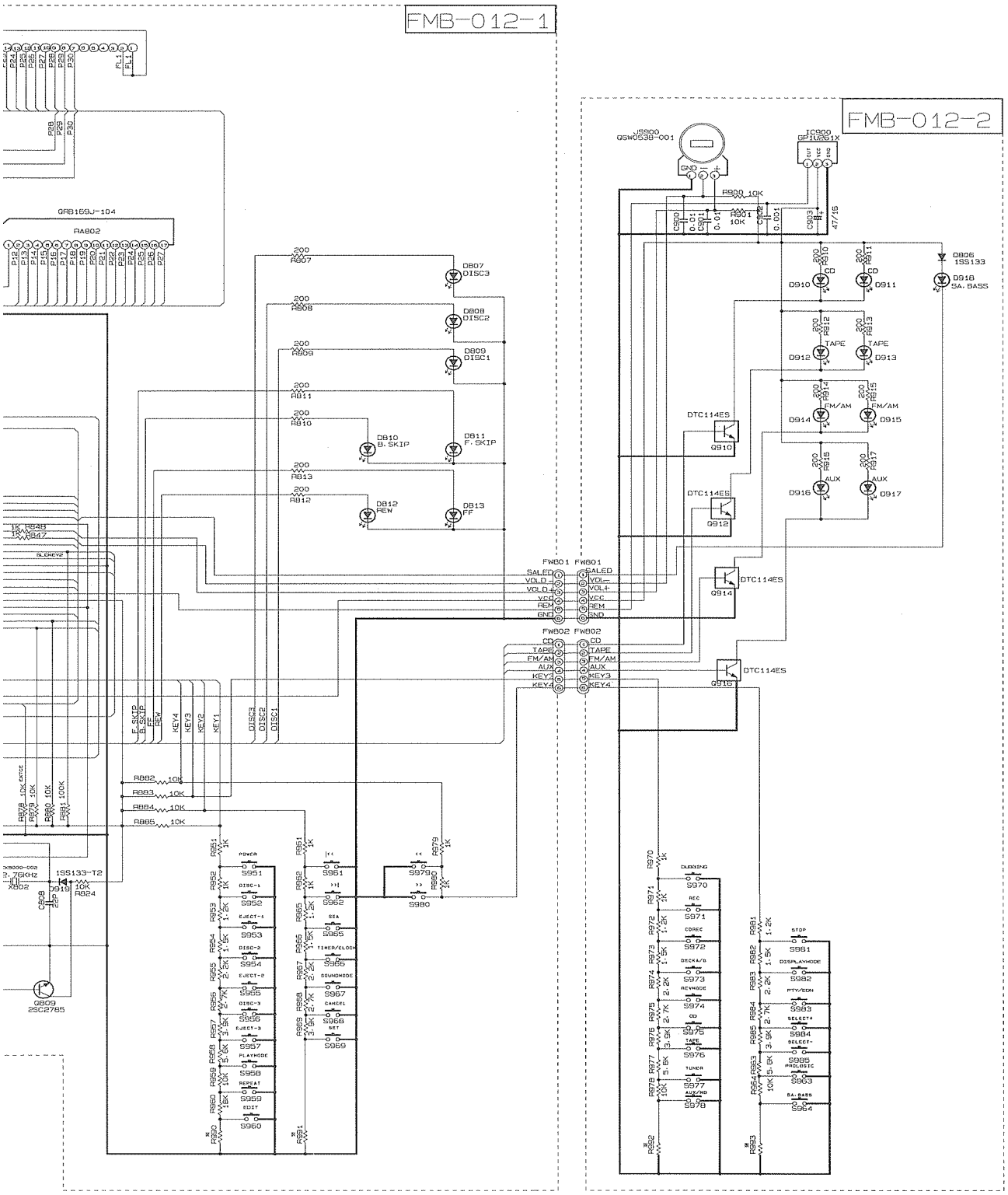
D | E | F | G | H

## System Control &Operation Switch Section




*MARK

| MODEL | VERSION | R992 | R993 | R990 | R991 | S982 | S983 | S984 | S985 | S963 | Q810/Q811 | D920/D921 | R829 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MX-D402T | J. C | 18K | 18K | 220K | 33K | NONE | NONE | NONE | NONE | USED | NONE | NONE | NONE |
| | U | 18K | 68K | 220K | 33K | NONE | NONE | NONE | NONE | USED | USED | USED | USED |
| | UR | 18K | NONE | 220K | 33K | NONE | NONE | NONE | NONE | USED | USED | USED | USED |
| | A | 18K | 68K | 220K | 33K | NONE | NONE | NONE | NONE | USED | USED | USED | USED |
| CA-D452TR/D432TR | B/E/EN | 18K | 68K | 220K | 82K | USED | USED | USED | USED | USED | NONE | NONE | NONE |
| | EE | 68K | 18K | 220K | 82K | USED | USED | USED | USED | USED | NONE | NONE | NONE |
| MX-D502T | J/C | 18K | 18K | 47K | 33K | NONE | NONE | NONE | NONE | USED | NONE | NONE | NONE |
| CA-D702T | U/UP/US/UT/UX | 18K | 68K | 47K | 33K | NONE | NONE | NONE | NONE | USED | USED | USED | USED |
| | UR | 18K | NONE | 47K | 33K | NONE | NONE | NONE | NONE | USED | USED | USED | USED |
| | A | 18K | 68K | 47K | 33K | NONE | NONE | NONE | NONE | USED | USED | USED | USED |
| CA-D752TR | B/E/EN | 18K | 68K | 47K | 82K | USED | USED | USED | USED | USED | NONE | NONE | NONE |
| | EE | 68K | 18K | 47K | 82K | USED | USED | USED | USED | USED | NONE | NONE | NONE |
| CA-MXD330 | | 68K | 68K | 220K | 82K | NONE | NONE | NONE | NONE | USED | NONE | NONE | NONE |

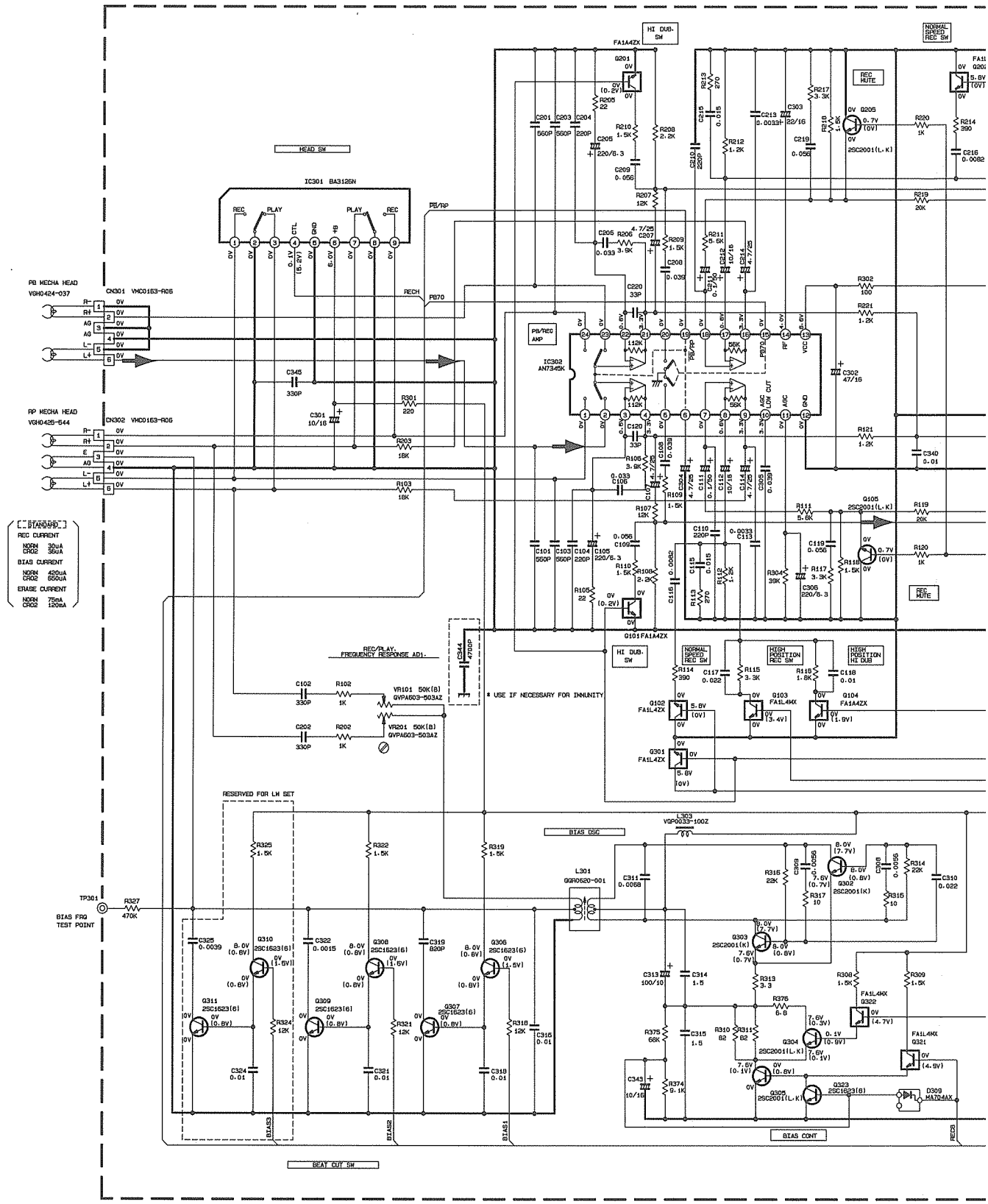



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION —— TAPE PB MODE
2. UNLESS OTHERWISE SPECIFIED
   RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN Ω(ohm) Ω.
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS109

MODEL MX-D402T
MODEL CA-D452TR
MODEL CA-D432TR
MODEL CA-MXD330
MODEL MX-D502T
MODEL CA-D752TR

## Head Amplifier & Machanism Control Section

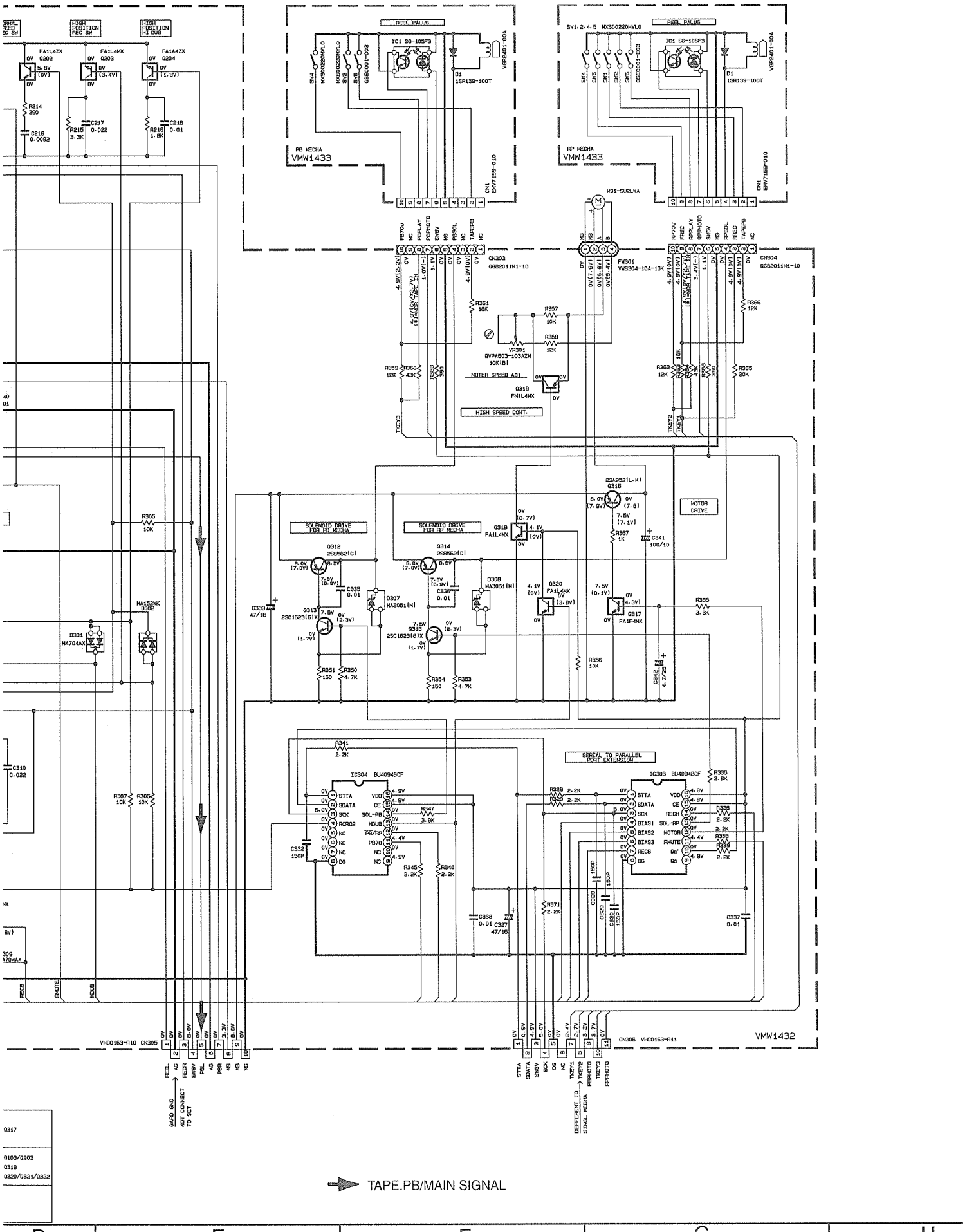



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. ( ) IS INVERT MODE
2. UNLESS OTHERWISE SPECIFIED

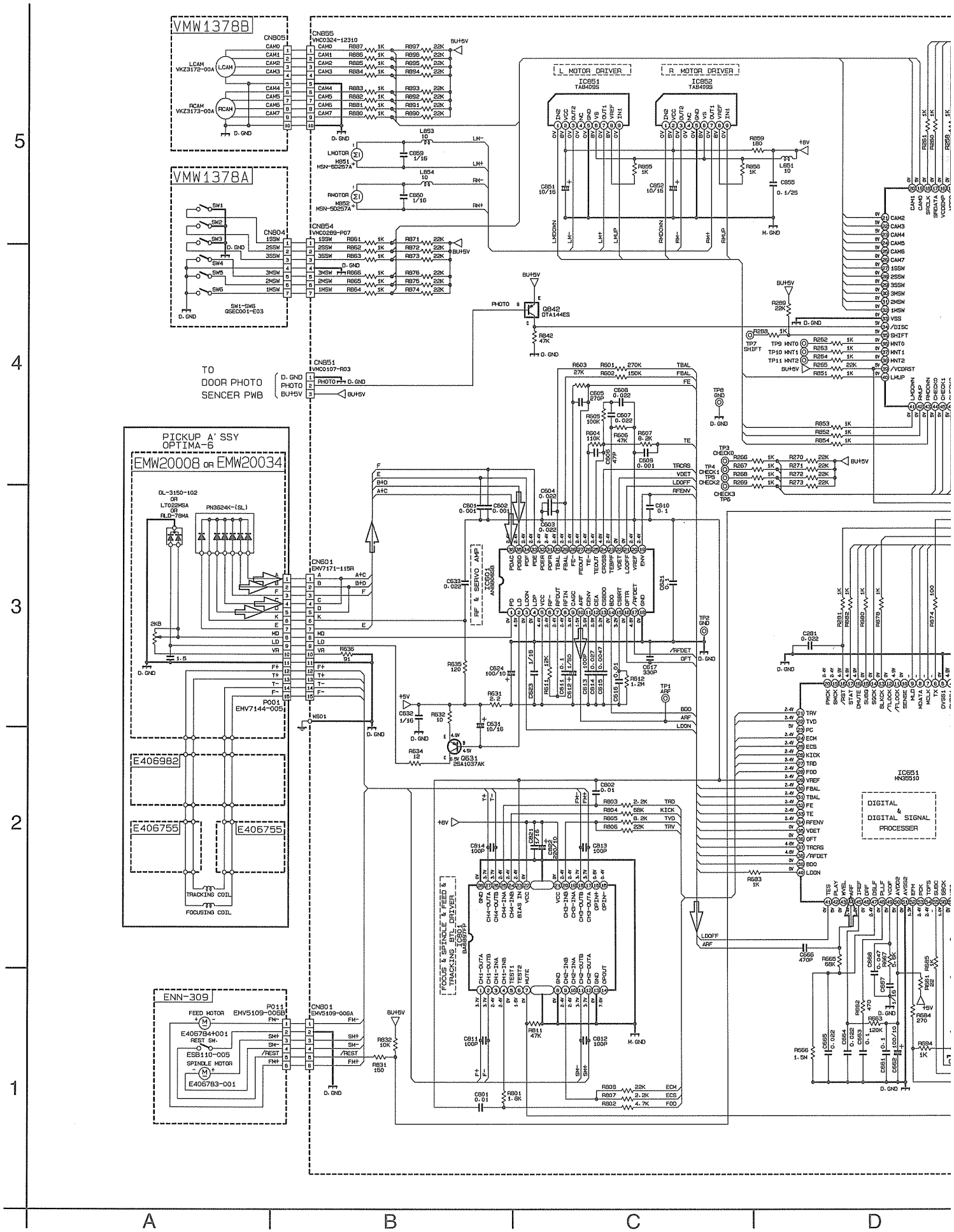
TABLE 1. DIGITAL TR LIST

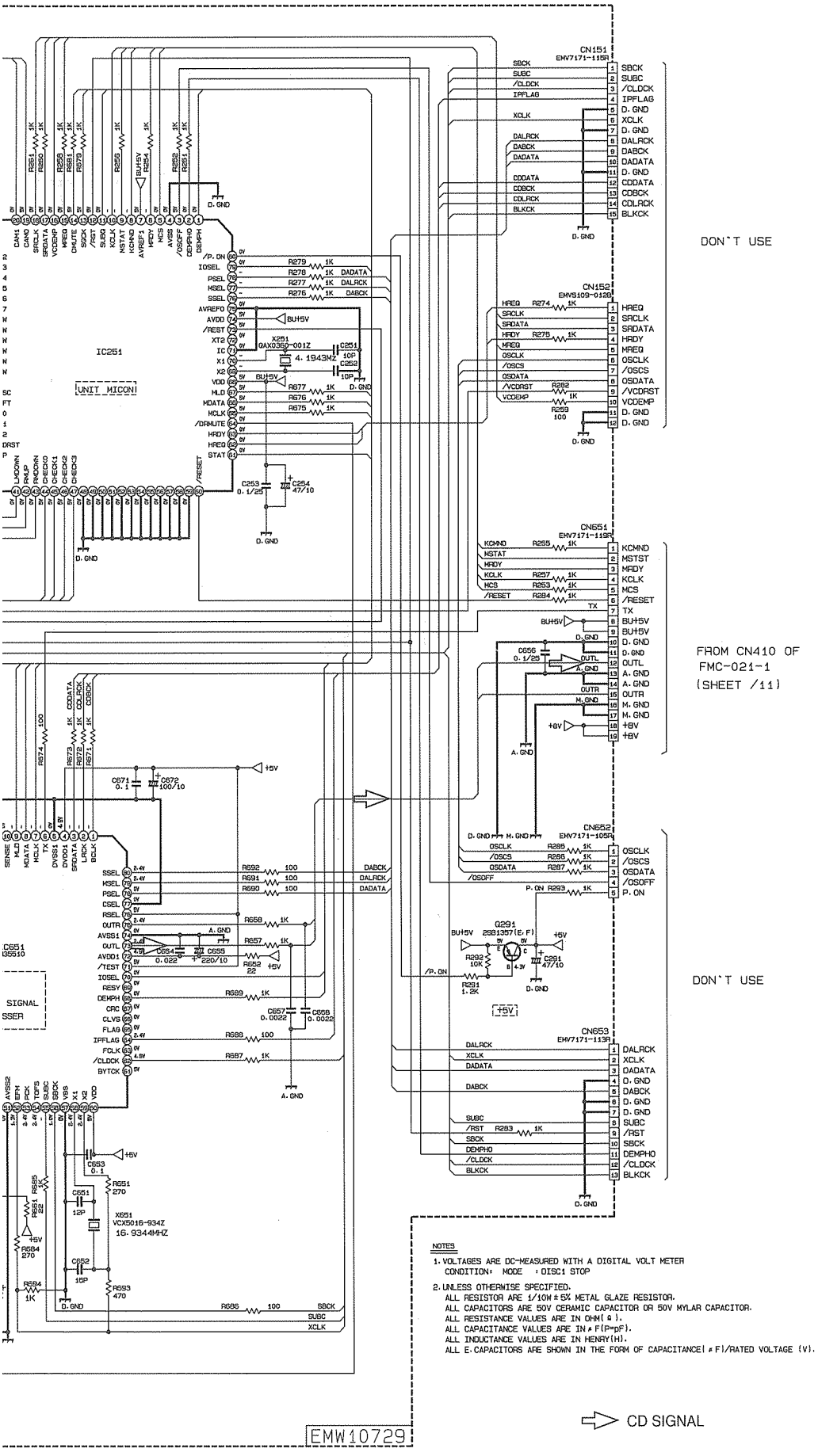
| PART. NO | CONSTRUCTION | REF. NO |
|---|---|---|
| FN1L4H | 47K 47K | Q318 |
| FA1F4H | 22K 22K | Q317 |


HIGH POSITION REC SW
HIGH POSITION HI DUB
FA1L4ZX Q202
FA1L4HX Q203
FA1A4ZX Q204
REEL PALUS
IC1 SG-105F3
PB MECHA VMW1433
RP MECHA VMW1433
CN1 BM7189-010
CN303 GG82011H1-10
CN304 GG82011H1-10
FW301 VWS304-10A-13K
MOTER SPEED ADJ
HIGH SPEED CONT.
SOLENOID DRIVE FOR PB MECHA
SOLENOID DRIVE FOR RP MECHA
MOTOR DRIVE
SERIAL TO PARALLEL PORT EXTENSION
IC304 BU4094BCF
IC303 BU4094BCF
VMW1432
CN305 VHC0163-R10
CN306 VHC0163-R11
GUARD GND
NOT CONNECT TO SET
DEFFERENT TO SINGL MECHA
TAPE.PB/MAIN SIGNAL

D E F G H

## CD Servo & Changer Machanism Control Section






NOTES

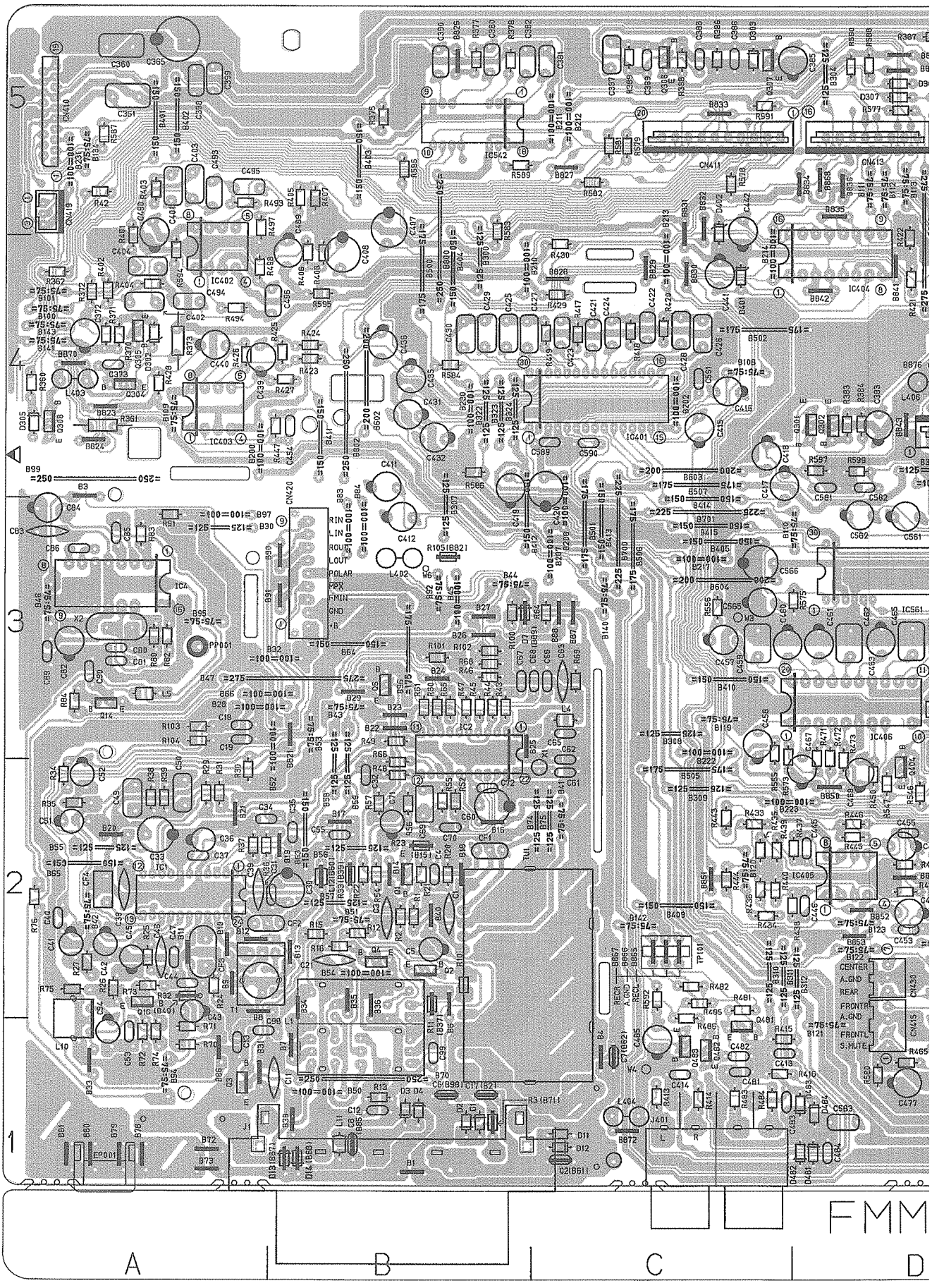
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
   CONDITION: MODE : DISC1 STOP

2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTOR ARE 1/10W ± 5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM( Ω ).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN HENRY(H).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE( μF)/RATED VOLTAGE (V).

CD SIGNAL

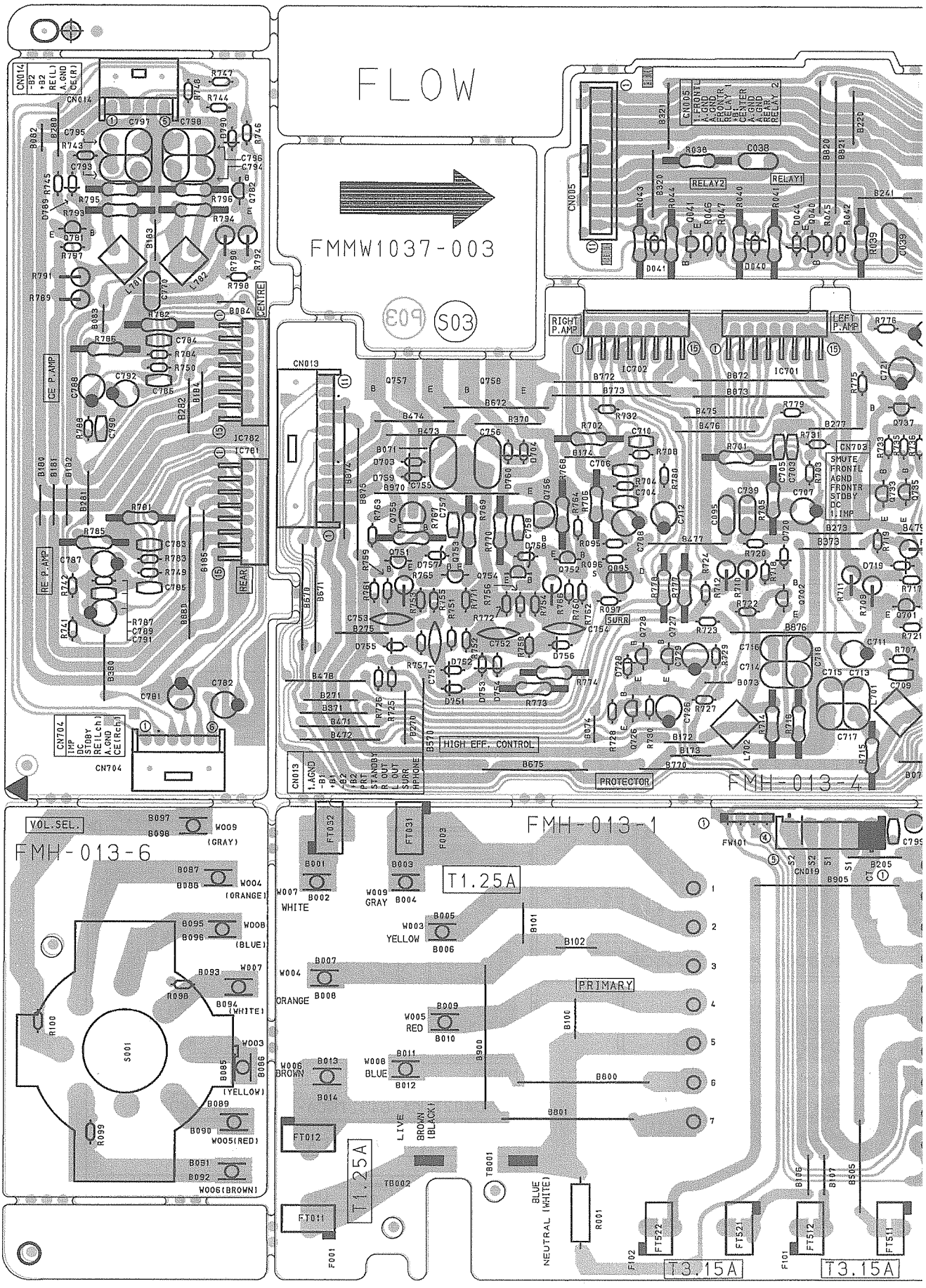
EMW10729

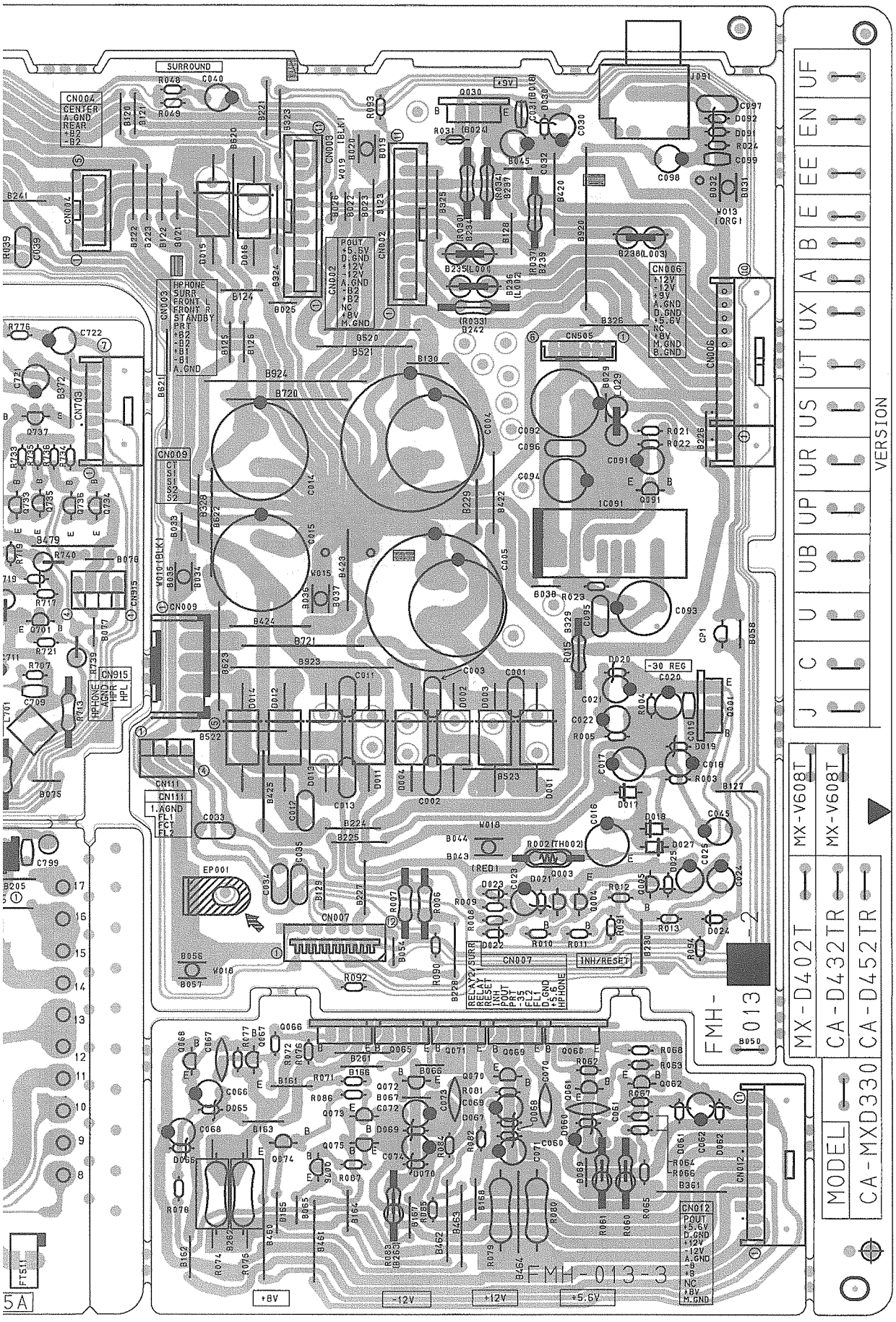
## ■ Main Amplifier & Tuner Board : Block No, 0 2



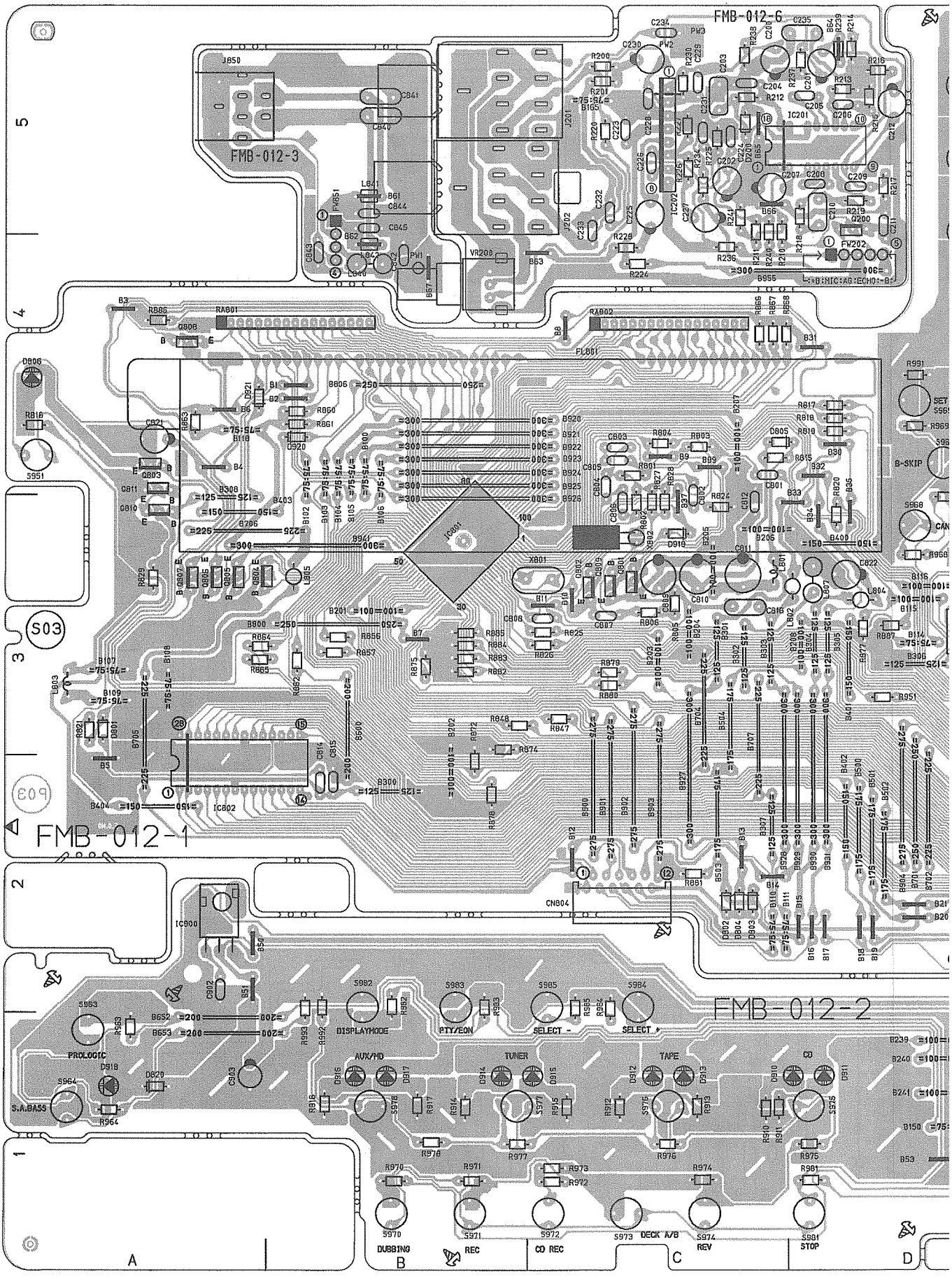
SABER
FLOW
FMC-011-2
FMC-011-1
B E E E N
U U B U P U R U S U T U X A
VERSION J C
MODEL MX-D402T CA-D432TR CA-D452TR CA-MXD330
M.GND
8V
5.6V
D.GND
A.GND
9V
-12V
12V
1MW1038-003
S03
D E F

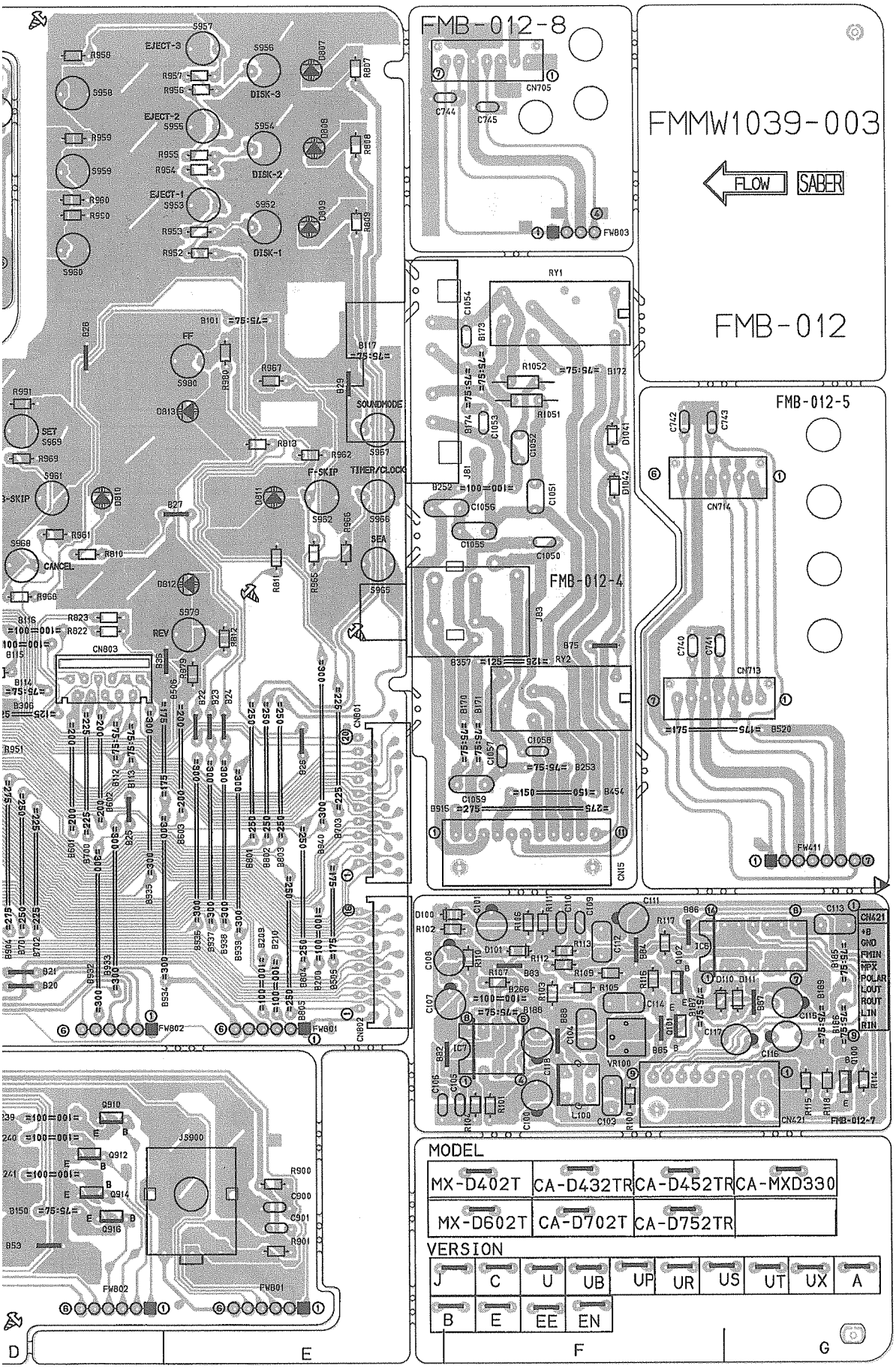
## ■ Power Supply & Power Amplifier Board : Block No, 0 1



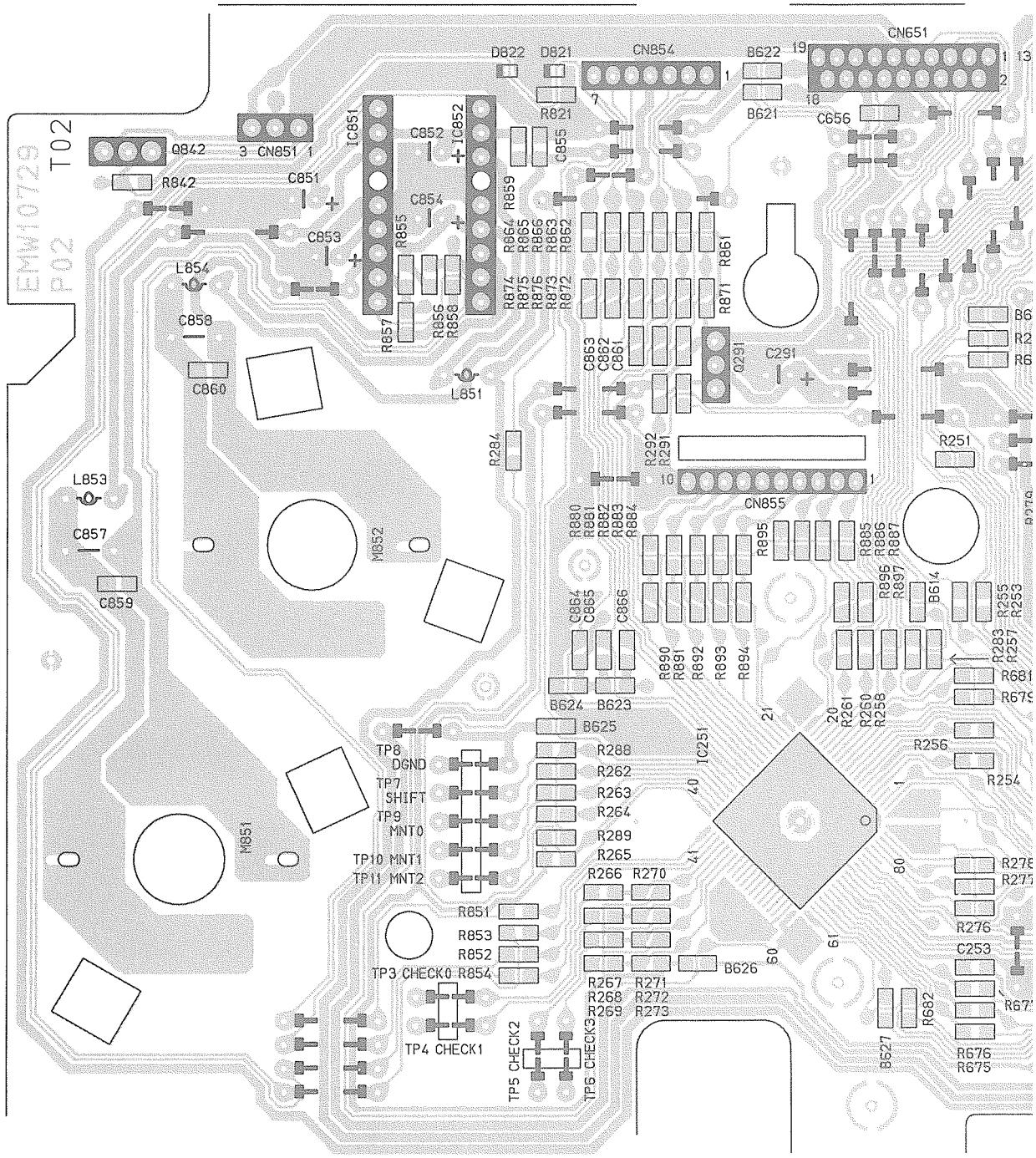

FMH-013-3
FMH-013-2
MODEL
CA-MXD330
CA-D452TR
CA-D432TR
MX-D402T
MX-V608T
MX-V608T
VERSION
J C U UB UP UR US UT UX A B E EE EN UF
SURROUND
CN004
CENTER
A.GND
REAR
CN009
HPHONE
SUBR
FRONT L
FRONT R
STANDBY
PRA
A.GND
CN002
POUT
+5.6V
D.GND
+12V
-12V
A.GND
+B
NC
+8V
M.GND
CN003
CN006
CN505
CN915
HPHONE
AGND
HPR
HPL
CN111
1.AGND
FL1
FCT
FL2
CN007
RELAY2/SUBR
RELAY1
RESET
INT
POUT
P-ST
FL2
FL1
D.GND
HP-R
HPHONE
INH/RESET
CN012
POUT
+5.6V
D.GND
+12V
-12V
A.GND
+B
NC
+8V
M.GND
-30 REG
+9V
+8V
-12V
+12V
+5.6V
IC091
EP001
FT511
5A

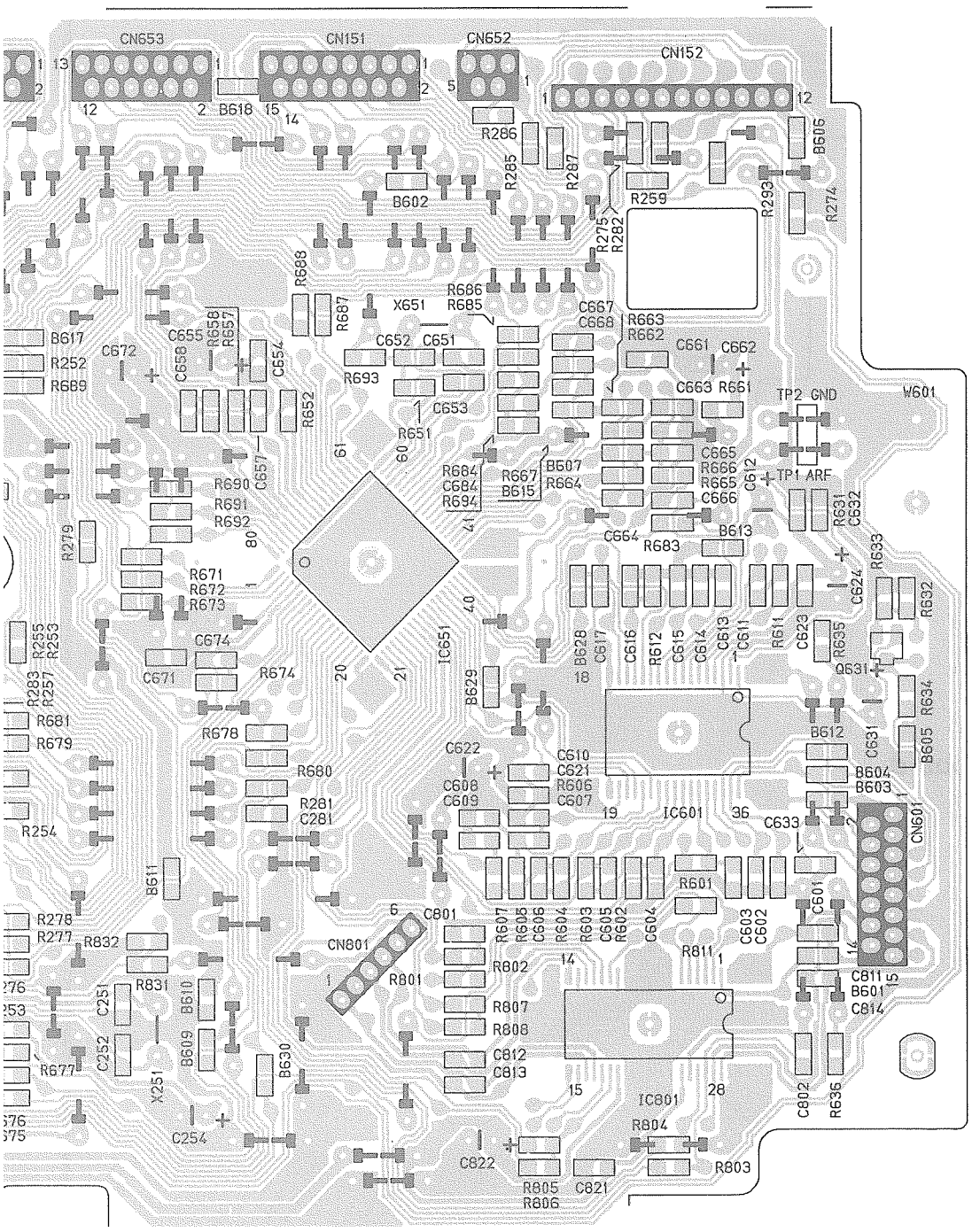
## ■System CPU & Operation Switch Board : Block No, [0] [3]




FMB-012-8
CN705
C744
C745
FW803
FMMW1039-003
FLOW
SABER
FMB-012
RY1
C1054
B173
R1052
B172
R1051
C1053
C1052
D1041
D1042
C1051
B252
C1056
C1055
C1050
FMB-012-4
J83
B357
RY2
B175
C1058
C1057
B253
C1059
B454
B915
CN15
FMB-012-5
C742
C743
CN714
C740
C741
CN713
B520
FW411
CN421
+B
GND
FMIN
MPX
POLAR
LOUT
ROUT
LIN
RIN
FMB-012-7
EJECT-3
EJECT-2
EJECT-1
DISK-3
DISK-2
DISK-1
S957
S956
S955
S954
S953
S952
S958
S959
S960
R956
R957
R955
R954
R953
R952
D807
D808
D809
R807
R808
R809
FF
S980
R980
R967
B101
B117
B29
SOUNDMODE
S967
R951
SET
S969
R969
S961
R961
R810
CANCEL
S968
R960
D813
R813
R962
F-SKIP
TIMER/CLOCK
S952
S966
SEA
S965
R965
D810
D811
B27
B28
R811
D812
REV
S970
R812
R823
R822
B116
B115
CN803
B114
B308
B506
S979
B22
B23
B24
B25
B26
CN801
B21
B20
FW802
FW801
CN802
Q910
Q912
Q914
Q916
JS900
R900
C900
C901
R901
D
E
F
G
MODEL
MX-D402T
CA-D432TR
CA-D452TR
CA-MXD330
MX-D602T
CA-D702T
CA-D752TR
VERSION
J
C
U
UB
UP
UR
US
UT
UX
A
B
E
EE
EN

## ■CD Servo & Mechanism Control Board : Block No, 0 4




CN653
CN151
CN652
CN152
B618
R286
R285
R287
B602
R259
R293
B606
R274
R275
R282
R688
R687
X651
R686
R685
C667
C668
R663
R662
C661
C662
C652
C651
R693
C653
R651
C663
R661
TP2
GND
W601
C655
R658
R657
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C654
C672
B617
R252
R689
R652
C657
R690
R691
R692
R684
C684
R694
R667
B615
B607
R664
C665
R666
R665
C666
C612
TP1
ARF
R631
C632
C664
R683
B613
R633
C624
R632
R279
R671
R672
R673
R255
R253
R283
R257
C674
C671
R674
IC651
B628
C617
C616
R612
C615
C614
C613
C611
R611
C623
R635
Q631
R634
B629
R681
R679
R678
R680
C622
C610
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B604
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C281
R254
IC601
C633
CN601
R601
C601
R611
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R277
R832
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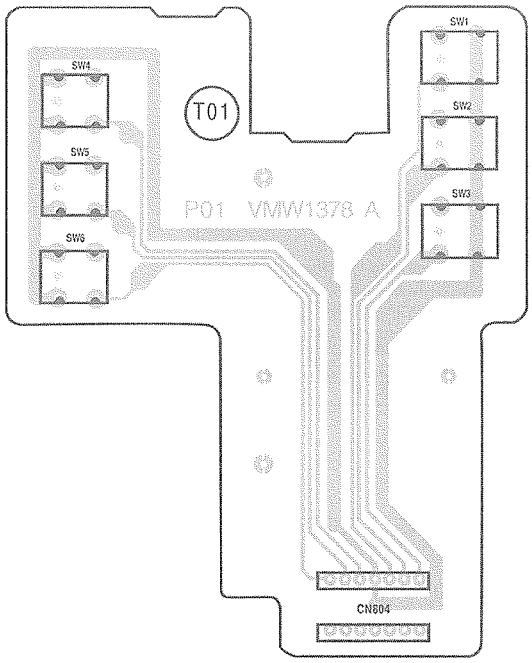
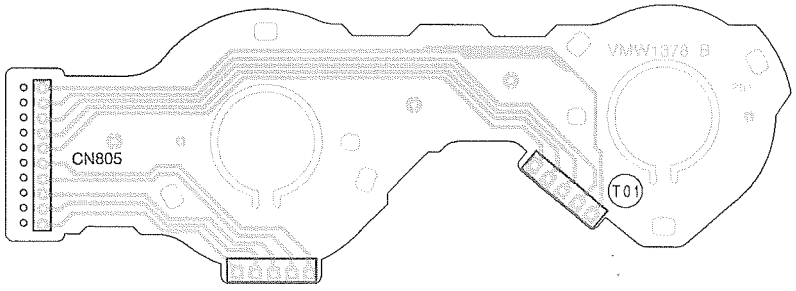
C814
R831
C251
B610
R807
R808
C812
C813
B609
C252
B630
R677
X251
C254
IC801
C802
R636
R804
C822
R803
R805
R806
C821

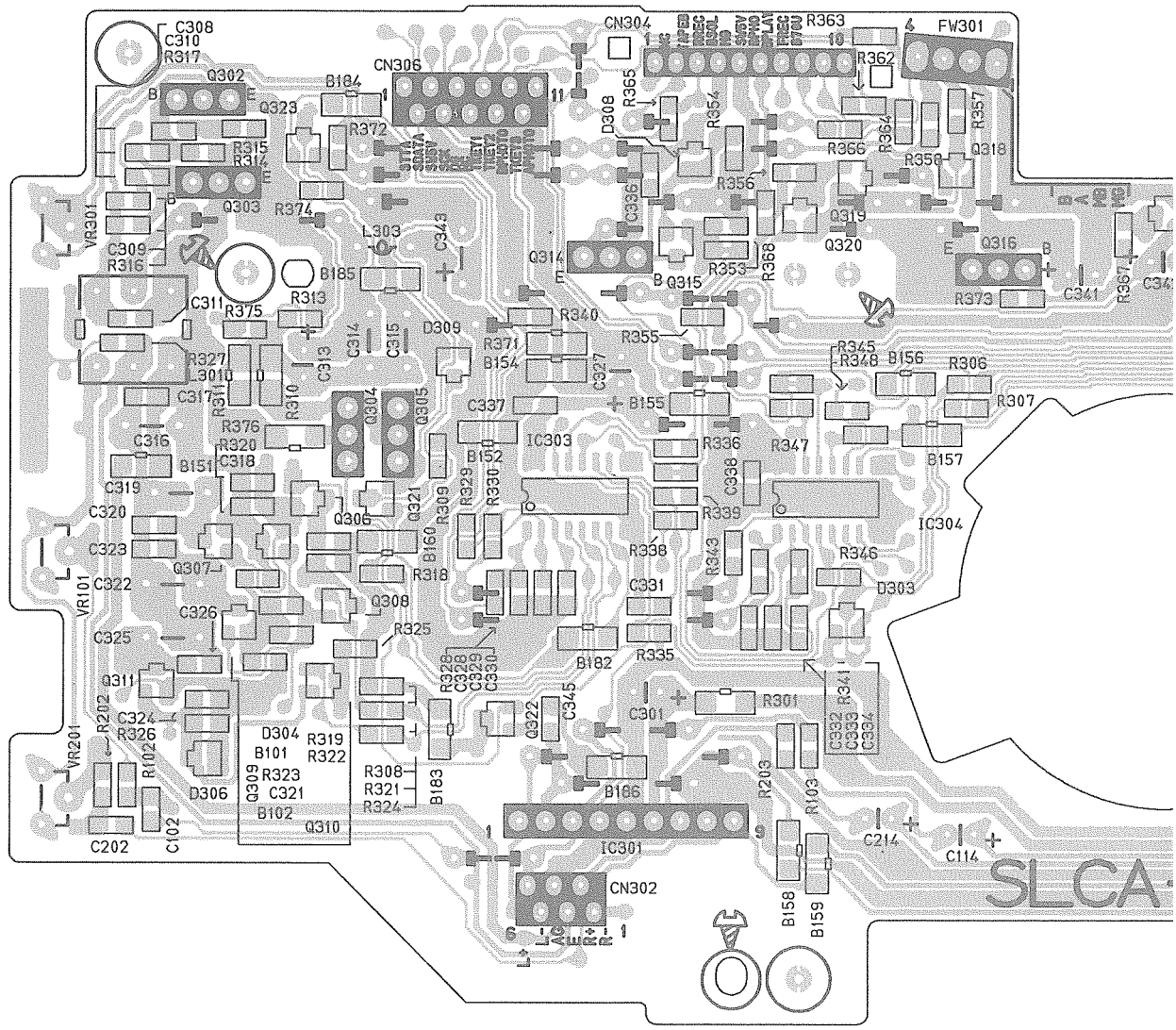
## ■ CD Tray Select Board : Block No, [0] [5]



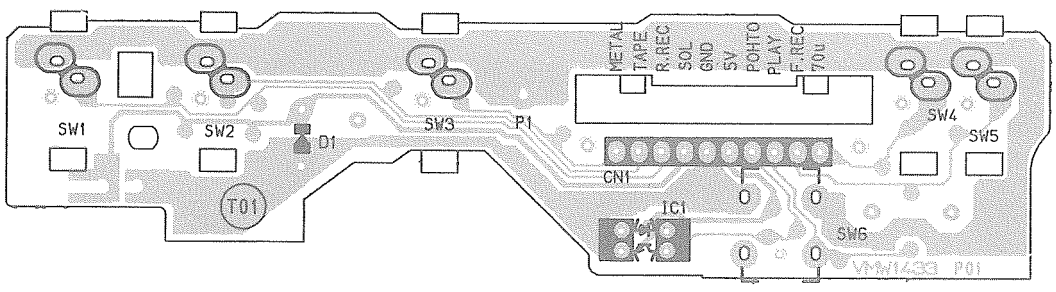

## ■ Cam Switch board

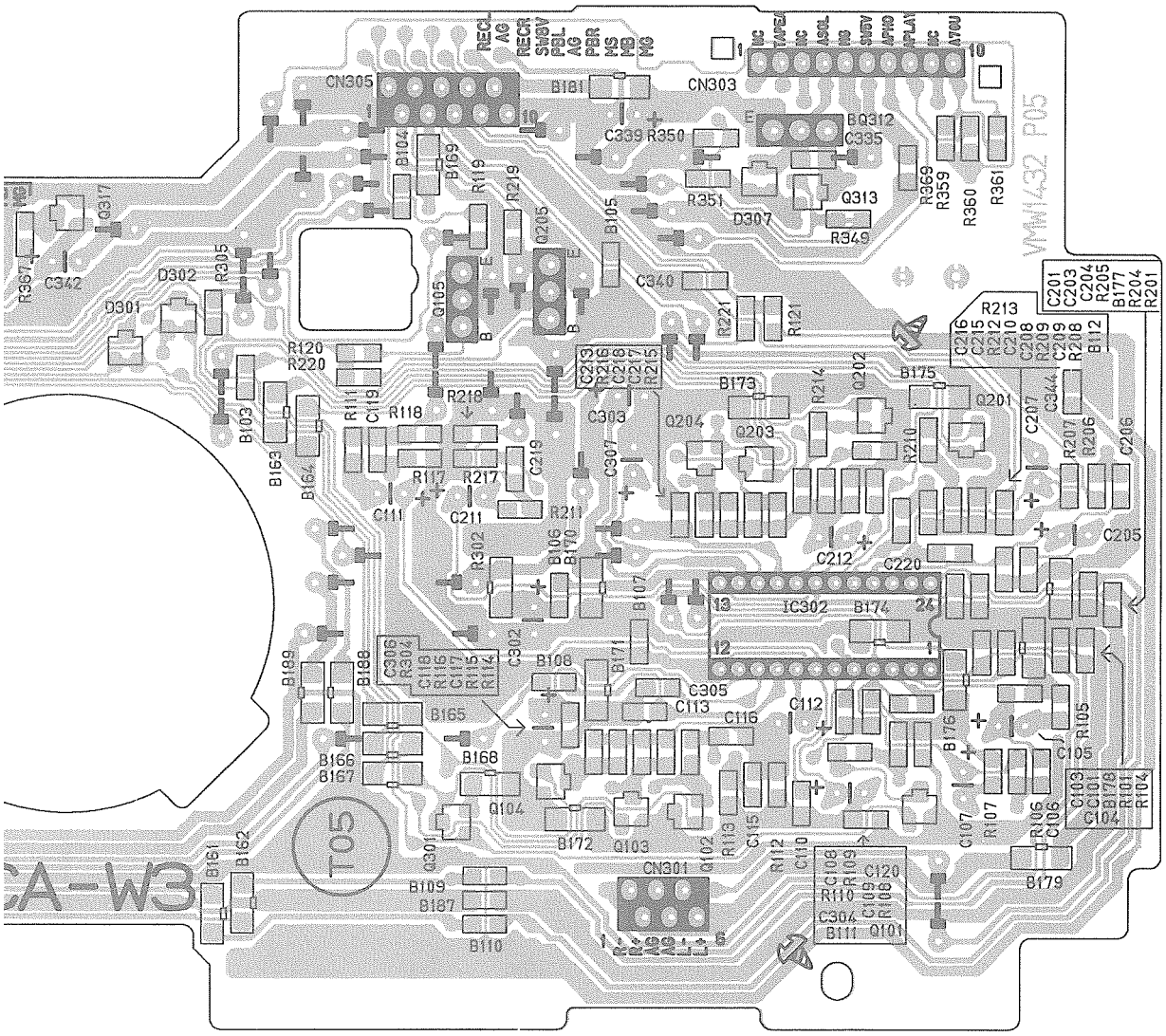


## ■ Head Amplifier & Mechanism Control Board : Block No, [0] [6]




## ■ Reel Pulse Board : Block No, [0] [7] [0] [8]




CN305
CN303
CN301
IC302
T05
CA-W3
WM432 P05

# -MEMO-

-MEMO-

# PARTS LIST

## [C A-D452TR / C A-D432TR ]

S P－D 4 5 2 / S P－D 4 3 2

B/E/EN/EE B/E/EN

* All printed circuit boards and its assemblies are not available as service parts.

**Area Suffix**

B---U.K

E---Continental Europe

EN---North Europe

EE---East Europe

- Contents -


CA-D432 List .....3-2
General Exploded View and Parts List ..... 3-3
Changer Mechanism Ass'y and Parts list .....3-6
CD Mechanism Ass'y and Parts list ..... 3-7
Cassette Mechanism Ass'y and Parts list ..... 3-8
Electrical Parts List ..... 3-10
( Power Supply & Power Amplifier ) ..... 3-10
( Main Amplifier & Tuner) .....3-13
( System C.P.U & Operation Switch ) ..... 3-16
( CD Servo & Mechanism Control ) .....3-19
( CD Tray Select Switch ) ..... 3-21
( Head Amplifier & Mechanism Control ) .....3-21
( Reel Pulse ) ..... 3-23
Accessories and Packing Materials and Parts List ..... 3-24

## ■Parts list (CA-D432TR B/E/EN)

* Please see the parts list of CA-D452TR for parts which are not described.

| | Item | Parts Number | Parts Name | Q'ty | Discription | Area |
|---|---|---|---|---|---|---|
| | 1 | GV10001-009A | FRONT PANEL | 1 | | |
| | 5 | GV20009-001A | CD BUTTON | 1 | | |
| | 7 | GV30010-002A | POWER BUTTON | 1 | ON/STANDBY MARK | |
| | 8 | GV30016-001A | PUSH BUTTON | 1 | | |
| | 10 | GV20006-003A | SOUND BUTTON | 1 | | |
| | 11 | GV30018-007B | SEARCH BTN. ASSY | 1 | | |
| | 12 | GV30009-001A | CONTROL BUTTON | 1 | | |
| | 22 | GV20001-005A | CASS HOLDER(L) | 1 | | |
| | 23 | GV20002-005A | CASS HOLDER(R) | 1 | | |
| | 26 | GV30014-004A | EJECT BUTTON(A) | 1 | | |
| | 27 | GV30015-004A | EJECT BUTTON(B) | 1 | | |
| | 81 | GV10004-019A | REAR PANEL | 1 | | |
| | 92 | GV10002-010A | METAL COVER | 1 | | |
| | 99 | GV20005-003A | WINDOW SCREEN | 1 | | |
| | 100 | GV20007-010A | ORNAMENT | 1 | | |
| | P1 | GV20011-005A | CARTON ASSY | 1 | | |

## ■ General Exploded Vlew and Parts List

BLOCK NO. M1MM

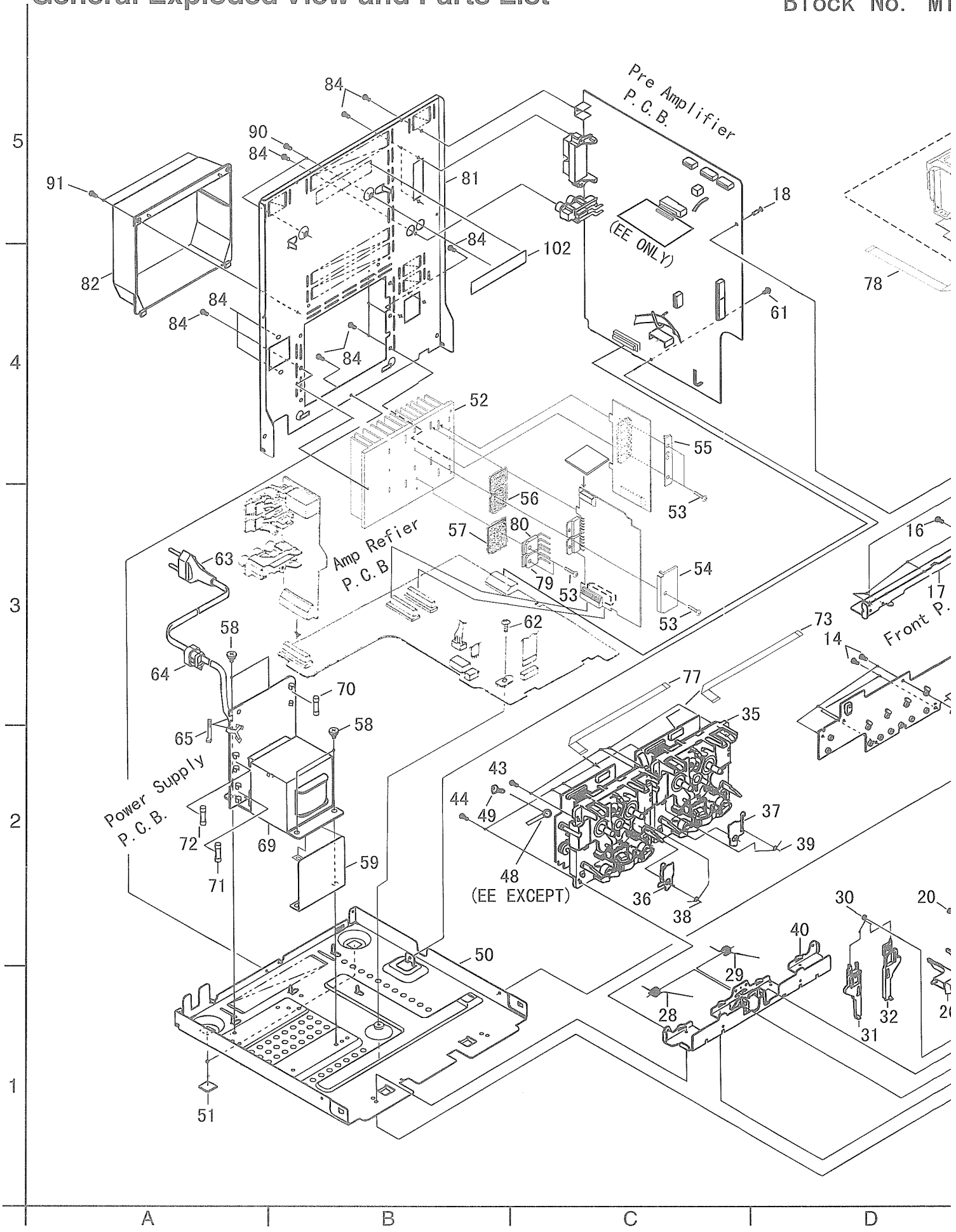
| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | 1 | GV10001-005AKP | FRONT PANEL | | 1 | | |
| | 2 | E75896-001 | SPACER | | 2 | | |
| | 3 | E406971-001SM | JVC MARK | | 1 | | |
| | 4 | GV40003-001AKP | STBY.INDICATOR | | 1 | | |
| | 5 | GV20009-002AKP | CD BUTTON | | 1 | | |
| | 6 | GV30008-001AKP | DISC BUTTON | ATTACH TO CD BT | 1 | | |
| | 7 | GV30010-004AKP | POWER BUTTON | ON/STANDBY MARK | 1 | | |
| | 8 | GV30016-002AKP | PUSH BUTTON | | 1 | | |
| | 9 | GV30017-002AKP | PUSH BUTTON | | 1 | | |
| | 10 | GV20006-001AKP | SOUND BUTTON | | 1 | | |
| | 11 | GV30018-002BKP | SERCH BTN.ASS'Y | | 1 | | |
| | 12 | GV30009-002AKP | CONTROL BUTTON | | 1 | | |
| | 13 | GV30013-001AKP | SOURCE BUTTON | | 1 | | |
| | 14 | SDSF2608Z | SCREW | SWITCH BOARD | 5 | | |
| | 15 | SDSF2608Z | SCREW | MICOM BOARD | 4 | | |
| | 16 | SDSF2608Z | SCREW | STY.BKT+F.PANEL | 6 | | |
| | 17 | GV30003-001AKP | STAY BRACKET | | 1 | | |
| | 18 | FMYH4004-001 | PLASTIC RIVET | MAIN BOARD&BKT. | 1 | | |
| | 19 | GV40001-001AKP | H.P BRACKET | | 1 | | |
| | 20 | SDSF2608Z | SCREW | H.P BKT.+F.PANE | 1 | | |
| | 21 | GV30012-001AKP | RDS BUTTON | | 1 | | |
| | 22 | GV20001-004AKP | CASS HOLDER(L) | | 1 | | |
| | 23 | GV20002-004AKP | CASS HOLDER(R) | | 1 | | |
| | 24 | GV20003-001AKP | CASS LENS (L) | | 1 | | |
| | 25 | GV20004-001AKP | CASS LENS (R) | | 1 | | |
| | 26 | GV30014-005AKP | EJECT BUTTON(A) | | 1 | | |
| | 27 | GV30015-005AKP | EJECT BUTTON(B) | | 1 | | |
| | 28 | FMKW4009-001 | HOLDER SPRING A | FOR CASS HOLDER | 1 | | |
| | 29 | FMKW4010-001 | HOLDER SPRING B | FOR CASS HOLDER | 1 | | |
| | 30 | FMKW4011-001 | SPRING | FOR EJECT LEVER | 1 | | |
| | 31 | FMKS3002-002KP | EJECT LEVER(A) | | 1 | | |
| | 32 | FMKS3003-002KP | EJECT LEVER(B) | | 1 | | |
| | 33 | VYH7779-00B | DUMPER ASS'Y | | 2 | | |
| | 34 | VKY4180-001 | CASSETTE SPRING | | 4 | | |
| | 35 | ------- | SLC(W)MECHA UNI | | 1 | | |
| | 36 | FMKL4012-003 | EJECT SAFETY(A) | | 1 | | |
| | 37 | FMKL4013-001 | EJECT SAFETY(B) | | 1 | | |
| | 38 | FMKW4007-001 | SPRING (A) | EJECT SAFETY A | 1 | | |
| | 39 | FMKW4008-001 | SPRING (B) | EJECT SAFETY B | 1 | | |
| | 40 | FMKL2002-001 | HOLDER BRACKET | | 1 | | |
| | 41 | SBSG3010Z | T.SCREW | F.P.TO H.BRKT. | 2 | | |
| | 42 | VKS5560-002 | T.SCREW | F.P.TO CHS.BASE | 2 | | |
| | 43 | SBSG3010Z | T.SCREW | MECHA & H.BRKT. | 4 | | |
| | 44 | SBSF3010Z | SCREW | MECHA & F.PANEL | 4 | | |
| | 45 | ------- | VIDEO 3CD CHANG | | 1 | | |
| | 46 | E309662-001 | DISC STOPPER | | 1 | | |
| | 47 | SBSF3008Z | SCREW | FOR DISC STOPPE | 1 | | |
| | 48 | VKZ4001-110 | WIRE HOLDER | EE EXCEPT | 1 | | |
| | 49 | SBSF2608Z | T.SCREW | FOR WIRE HOLDER | 1 | | |
| | 50 | GV10003-001AKP | CHASSIS BASE | | 1 | | |
| | 51 | E75896-006 | FELT SPACER | CHAS.BASE FOOT | 2 | | |
| | 52 | GV30006-001AKP | HEAT SINK | | 1 | | |
| | 53 | SBSG3014CC | T.SCREW | | 5 | | |
| | 54 | FMKL4007-001 | BRACKET | FOR POWER IC | 1 | | |
| | 55 | E406969-002SM | LEAF SPRING | | 1 | | |

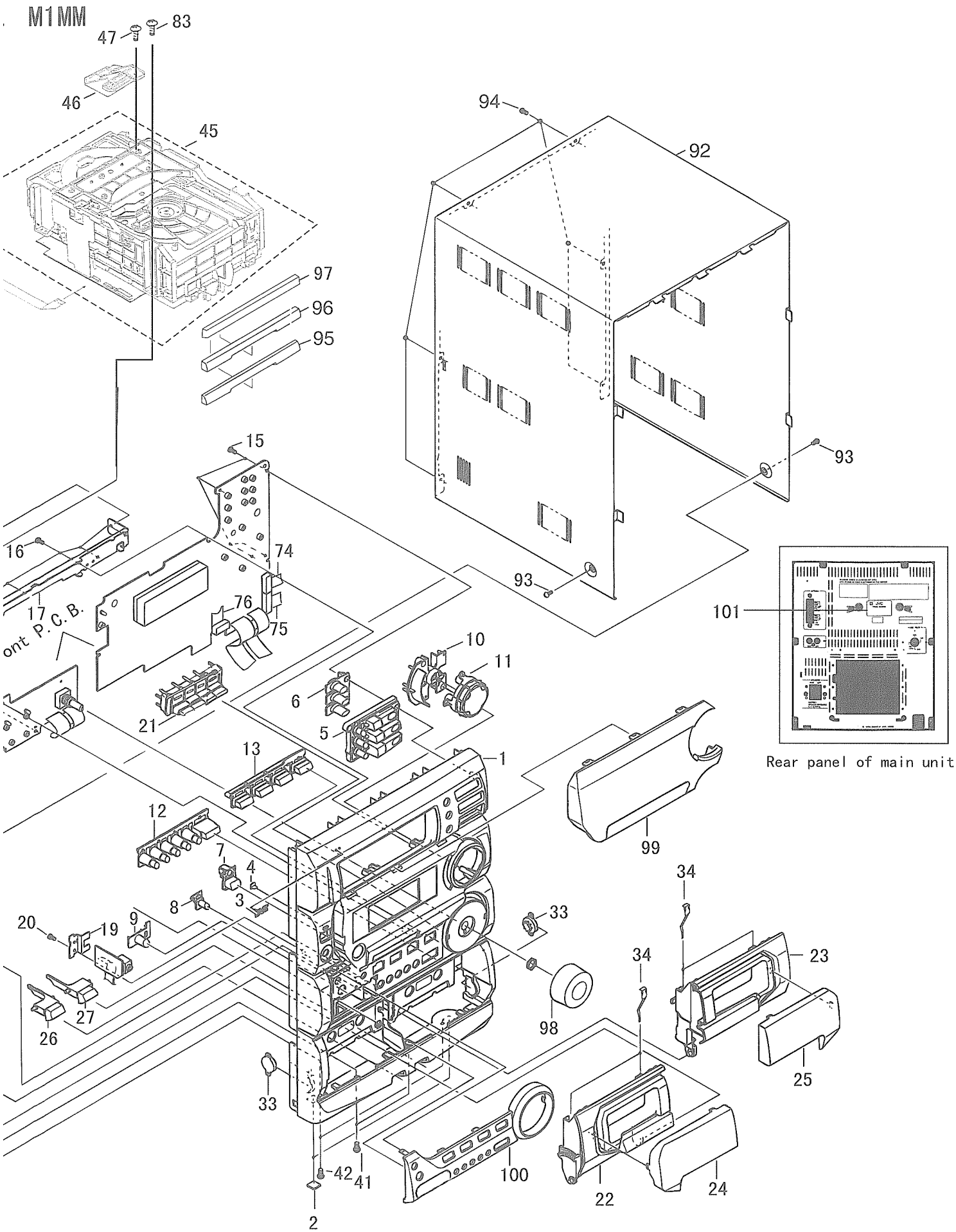
BLOCK NO. M1MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | 56 | FMPK4003-001 | MICA SHEET | | 1 | | |
| | 57 | FMPK4004-001 | MICA SHEET | | 1 | | |
| | 58 | E65389-002 | SPECIAL SCREW | | 4 | | |
| | 59 | E409015-001SM | SHIELD PLATE | | 1 | | |
| | 61 | GBSG3008CC | T.SCREW | M.BOARD & C.BAS | 1 | | |
| | 62 | GBSG3008CC | T.SCREW | FMH BRD. & C.BA | 1 | | |
| ⚠ | 63 | QMPN090-200-JC | POWER CORD | | 1 | B | |
| ⚠ | | QMPK090-205-JN | POWER CORD | | 1 | | |
| | 64 | QHS3771-108 | CORD STOPPER | | 1 | | |
| | 65 | QHX2075-001 | WIRE CLAMP | WIRE ARRANG. | 2 | | |
| | | QHX2075-001 | WIRE CLAMP | P.CORD/P.PWB | 1 | | |
| | | QHX2075-001 | WIRE CLAMP | P.CORD/P.PWB | 1 | | |
| | 68 | VKZ4001-110 | WIRE HOLDER | | 1 | | |
| ⚠ | 69 | QQT0156-002 | POWER TRANS | | 1 | | |
| ⚠ | 70 | QMF51E2-1R25 | FUSE | | 1 | | |
| ⚠ | 71 | QMF51E2-3R15J1 | FUSE | | 1 | | |
| ⚠ | 72 | QMF51E2-3R15J1 | FUSE | | 1 | | |
| | 73 | VWF1211-15TTB | CARD WIRE | FMB-SLC | 1 | | |
| | 74 | VWF1220-10TTB | CARD WIRE | FMB-MAIN | 1 | | |
| | 75 | VWF1216-10TTB | CARD WIRE | FMB-MAIN | 1 | | |
| | 76 | VWF1212-25TTB | TAF CARD | FMB-FMH | 1 | | |
| | 77 | VWF1210-20TTB | CARD WIRE | MAIN-SLC | 1 | | |
| | 78 | VWF1019-20TTA | CARD WIRE | MAIN-VC3 | 1 | | |
| | 79 | 2SC4467/OPY/-F1 | TRANSISTOR | | 1 | | |
| | 80 | 2SA1694/OPY/-F1 | TRANSISTOR | | 1 | | |
| | 81 | GV10004-011AKP | REAR PANEL | | 1 | | |
| | | GV10004-012A | REAR PANEL | | 1 | EE | |
| | 82 | E207356-001SM | REAR COVER | | 1 | | |
| | 83 | SBSG3008Z | T.SCREW | C3 & STAY BRKT. | 2 | | |
| | 84 | E73273-003 | SPECIAL SCREW | AUX/REAR PANEL | 1 | | |
| | | E73273-003 | SPECIAL SCREW | E.PLATE/R.PANEL | 1 | | |
| | | E73273-003 | SPECIAL SCREW | R.PANEL/ C.BASE | 1 | | |
| | | E73273-003 | SPECIAL SCREW | H.SINK/ R.PANEL | 3 | | |
| | | E73273-003 | SPECIAL SCREW | C3 / REAR PANEL | 2 | | |
| | | E73273-003 | SPECIAL SCREW | SPK.TEM./R.PANE | 2 | | |
| | 90 | E73273-003 | SPECIAL SCREW | ANTENA/ R.PANEL | 2 | | |
| | 91 | E73273-003 | SPECIAL SCREW | R.COVER/R.PANEL | 2 | | |
| | 92 | GV10002-012AKP | METAL COVER | | 1 | | |
| | 93 | SBSB3006M | T.SCREW | | 2 | | |
| | 94 | E73273-003 | SPECIAL SCREW | | 6 | | |
| | 95 | E209153-004SMKP | CD FITTING | DISC 1 | 1 | | |
| | 96 | E209155-003SMKP | CD FITTING | DISC 2 | 1 | | |
| | 97 | E209157-004SMKP | CD FITTING | DISC 3 | 1 | | |
| | 98 | E310080-231SMKP | M.VOL.KNOB | | 1 | | |
| | 99 | GV20005-005AKP | WINDOW SCREEN | | 1 | | |
| | 100 | GV20007-003AKP | ORNAMENT | | 1 | | |
| | 101 | E70891-001 | CLASS 1 LABEL | | 1 | | |
| | 102 | E406709-001 | LASER CAUTION | | 1 | | |

# General Exploded View and Parts List

Block No. M1






Rear panel of main unit

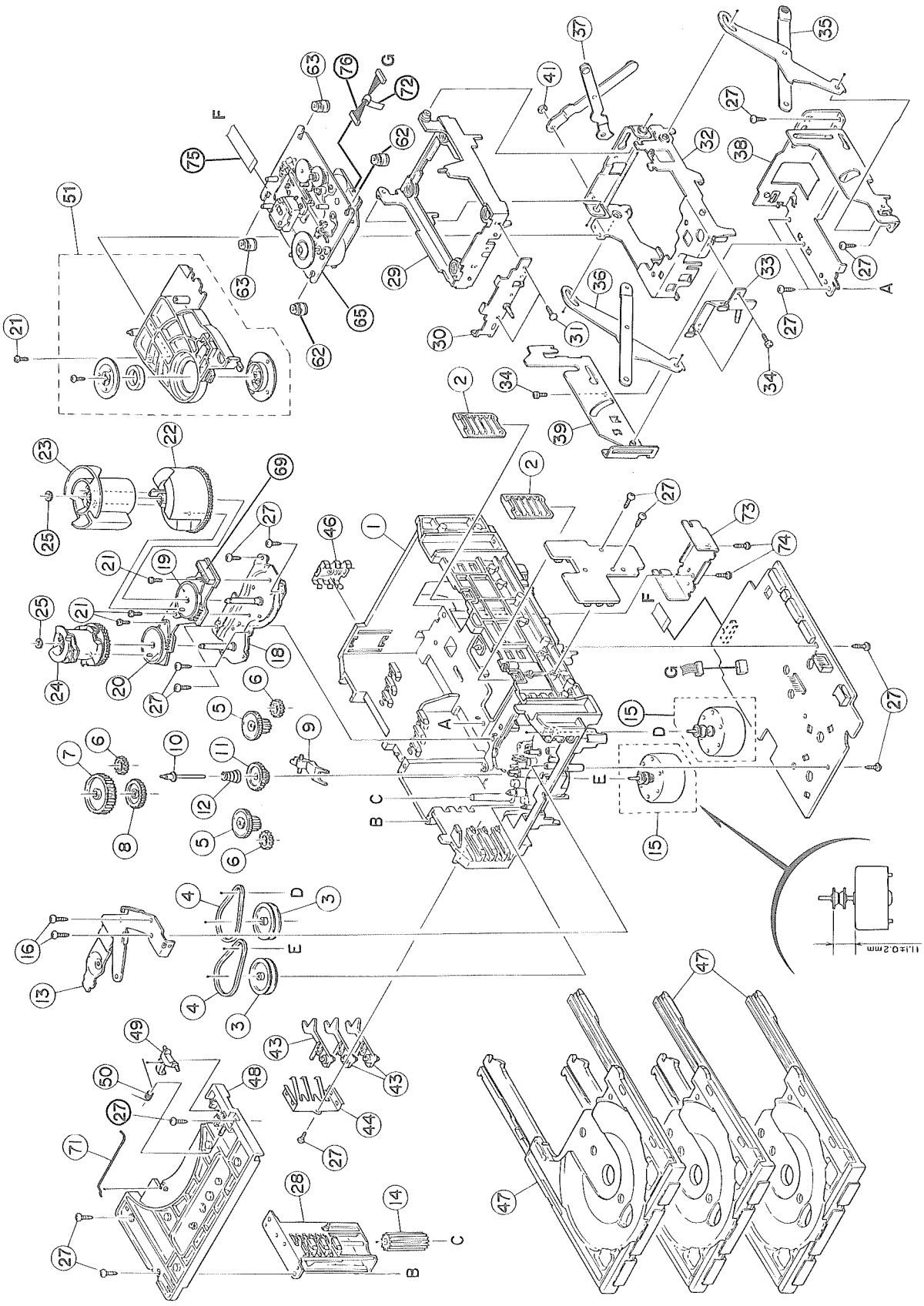
BLOCK NO. M2MM□□□

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | 1 | VKS1144-003 | CHASSIS | | 1 | | |
| | 2 | VKS3698-003 | TRAY GUIDE | | 2 | | |
| | 3 | VKS5532-003 | PULLEY GEAR | | 2 | | |
| | 4 | VKB3000-164 | BELT | | 2 | | |
| | 5 | VKS5505-003 | GEAR B | | 2 | | |
| | 6 | VKS5506-002 | GEAR C | | 3 | | |
| | 7 | VKS5507-002 | CROSS GEAR U | | 1 | | |
| | 8 | VKS5508-002 | CROSS GEAR L | | 1 | | |
| | 9 | VKS5510-003 | SELECT LEVER | | 1 | | |
| | 10 | VKH5769-001 | S.G.SHAFT | | 1 | | |
| | 11 | VKS5511-002 | SELECT GEAR | | 1 | | |
| | 12 | VKW5155-003 | COMP.SPRING | FOR SELECT GEAR | 1 | | |
| | 13 | VKM3846-002 | GEAR BRACKET | | 1 | | |
| | 14 | VKS5509-002MM | CYLINDER GEAR | | 1 | | |
| | 15 | MSN-5D257A | D.C.MOTOR | | 2 | | |
| | 16 | DPSP2616Z | SCREW | FOR MOTOR | 2 | | |
| | 18 | VKM3825-00AMM | C.G.BASE ASS'Y | | 1 | | |
| | 19 | VKZ3172-00A | CAM SW. R ASS'Y | | 1 | | |
| | 20 | VKZ3173-00A | CAM SW. L ASS'Y | | 1 | | |
| | 21 | SPST2606Z | SCREW | FOR CAM SW. | 4 | | |
| | 22 | VKS2263-002MM | CAM R1 | | 1 | | |
| | 23 | VKS2264-002MM | CAM R2 | | 1 | | |
| | 24 | VKS2265-002MM | CAM GEAR L | | 1 | | |
| | 25 | WDL316050 | SLIT WASHER | | 1 | | |
| | | WDL316050 | SLIT WASHER | FOR CAM GEAR L | 1 | | |
| | 27 | SBSF2608Z | T.SCREW | FOR C.GEAR BASE | 16 | | |
| | 28 | VKS3702-00FMM | DRIVE UNIT | | 1 | | |
| | 29 | VKS2247-004 | MECHA HOLDER A | | 1 | | |
| | 30 | VKL7767-00B | BRACKET ASS'Y | | 1 | | |
| | 31 | SBSF2606Z | SCREW | FOR BRACKET | 2 | | |
| | 32 | VKM3860-00A | M.HOLDER B AS'Y | | 1 | | |
| | 33 | VKL7802-00C | M.HOLDER C AS'Y | | 1 | | |
| | 34 | SDST2604Z | SCREW | FOR M.HOLDER C | 3 | | |
| | 35 | VKL7810-00A | LIFTER ASS'Y R | | 1 | | |
| | 36 | VKL7811-00A | LIFTER ASS'Y L | | 1 | | |
| | 37 | VKL7812-00A | LIFTER ASS'Y H | | 1 | | |
| | 38 | VKL2732-002 | LIFTER BASE | | 1 | | |
| | 39 | VKM3823-001 | LIFTER BRACKET | | 1 | | |
| | 41 | WDL266035-2 | SLIT WASHER | | 1 | | |
| | 43 | VKS5514-002MM | LOCK LEVER | | 3 | | |
| | 44 | VKY3133-002MM | RETURN SPRING | | 1 | | |
| | 46 | VKY3134-003MM | CLICK SPRING | | 1 | | |
| | 47 | VKS2252-00EKP | TRAY ASS'Y | | 3 | | |
| | 48 | VKS2250-003 | TOP BRACKET | | 1 | | |
| | 49 | VKS5515-002 | S.TRAY STOPPER | | 1 | | |
| | 50 | VKW5156-004 | TORSION SPRING | | 1 | | |
| | 52 | SBSF2608Z | T.SCREW | | 2 | | |
| | 62 | FMYH4003-002 | INSULATOR | | 2 | | |
| | 63 | FMYH4003-001 | INSULATOR | | 2 | | |
| | 64 | VKS3703-00F | CLAMPER ASS'Y | | 1 | | |
| | 65 | ------- | CD MECHA.ASS'Y | | 1 | | |
| | 69 | QGB2021L1-10 | CONNECTOR | | 1 | | |
| | 71 | VKW5187-001 | ROD | | 1 | | |
| | 72 | VYSA1R2-033 | SPACER | FOR EWS176-008 | 1 | | |
| | 73 | LE30611-001AKP | C.B HOLDER | FOR CD CB | 1 | | |
| | 74 | SBSF3008Z | SCREW | FOR HOLDER | 2 | | |
| | 75 | QUQ110-1509AJ | FLAT WIRE | TRAVERSE 15 | 1 | | |
| | 76 | EWS176-008 | FLAT WIRE | TRAVERSE 6 | 1 | | |

# CD Changer Mechanism and Parts List

Block No. M 2 M M

VC3-1M



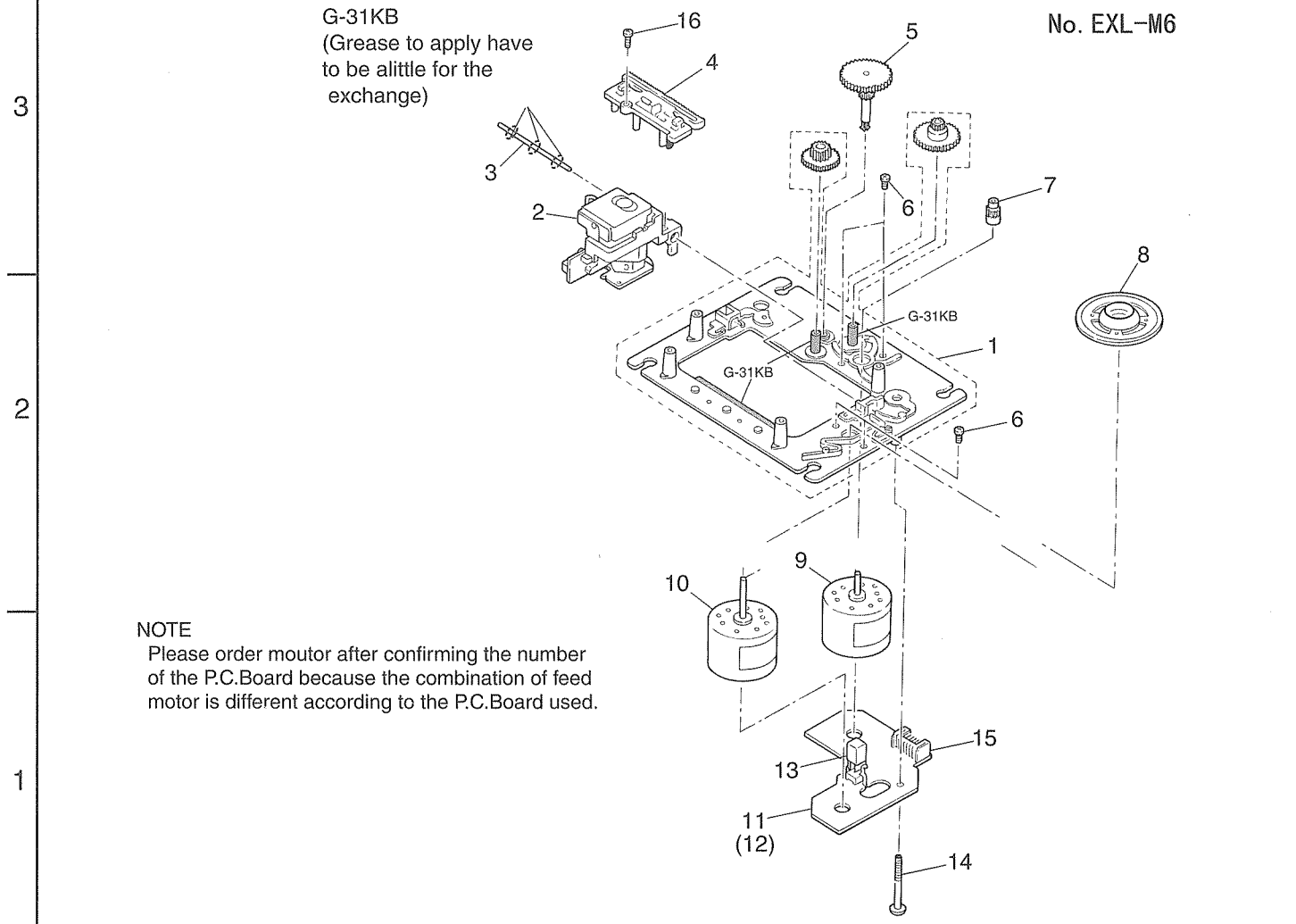
# CD Mechanism Ass'y and Parts List

## Grease Point

Block No. M 3 M M

No. EXL-M6

G-31KB
(Grease to apply have to be alittle for the exchange)



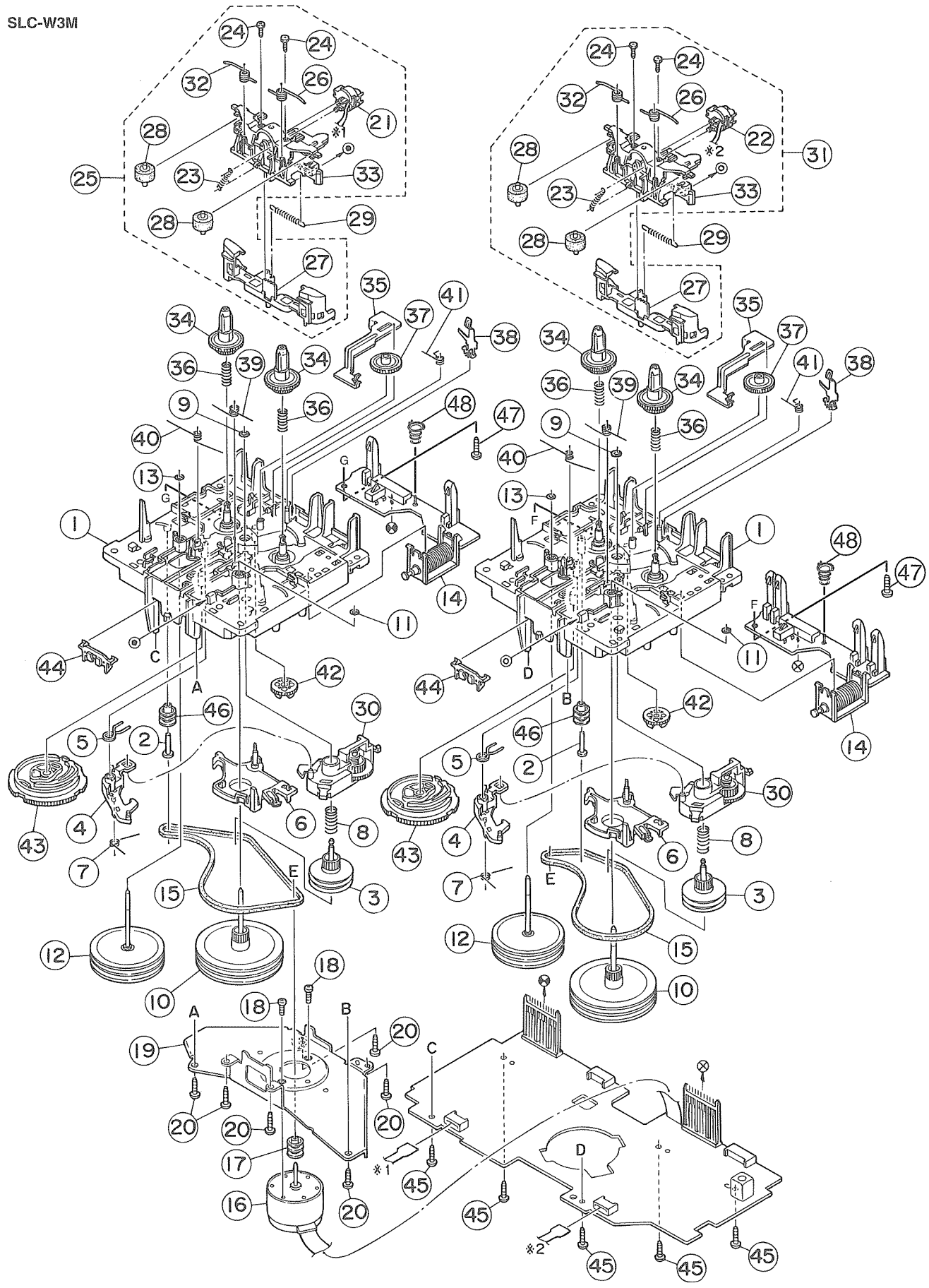

NOTE
Please order moutor after confirming the number of the P.C.Board because the combination of feed motor is different according to the P.C.Board used.

## CD Mechanism Assembly Parts List

| ⚠ | Item | Parts Number | Parts Name | Q'ty | Description | Area |
|---|---|---|---|---|---|---|
| | 1 | EPB-002PK | MECHA. BASE ASSY | 1 | | |
| | 2 | OPTIMA-150S | OPTICAL PICK UP | 1 | | |
| | 3 | E407782-001 | CD SHAFT | 1 | | |
| | 4 | E307746-001 | CD RACK | 1 | | |
| | 5 | EPB-003A | MECHA GEAR | 1 | | |
| | 6 | SDSP2003N | SCREW | 4 | | |
| | 7 | E406750-001 | PINION GEAR | 1 | | |
| | 8 | EPB309173A | TURN TABLE | 1 | | |
| | 9 | E406784-001 | FEED MOTOR | 1 | Use the No.11 P.C.Board | |
| | | MDN-4RA3ETA-1 | FEED MOTOR | 1 | Use the No.12 P.C.Board | |
| | 10 | E406783-001 | SPINDLE MOTOR | 1 | | |
| | 11 | EMW10190-001(S) | P.C.BOARD | 1 | | |
| | 12 | EMW10190-221(S) | P.C.BOARD | 1 | | |
| | 13 | ESB1100-005 | LEAF SWITCH | 1 | | |
| | 14 | E75832-001 | SCREW | 1 | | |
| | 15 | EMV5109-006B | CONN. TERMINAL | 1 | | |
| | 16 | SDSF2006Z | SCREW | 1 | | |

# Cassette Mechanism Ass'y and Parts List

Block No. M 4 M M



BLOCK NO. M4MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | 1 | VKS1165-00FKP | CHASSIS B. ASSY | | 2 | | |
| | 2 | VKH5786-002 | SHAFT | | 2 | | |
| | 3 | VKR3199-002 | MAIN PULLEY | | 2 | | |
| | 4 | VKS3785-001MM | FR ARM | | 2 | | |
| | 5 | VKW5284-002 | SWING SPRING | | 2 | | |
| | 6 | VKS2278-001 | TRIGGER ARM | | 2 | | |
| | 7 | VKW5301-001 | FR SPRING | | 2 | | |
| | 8 | VKW5266-001 | ELEVATOR SPRING | | 2 | | |
| | 9 | WDL214025 | WASHER | | 2 | | |
| | 10 | VKF3205-00B | F.WHEEL ASSY(R) | | 2 | | |
| | 11 | WDL183425 | SLIT WASHER | | 2 | | |
| | 12 | VKF3207-00B | F.WHEEL ASSY(L) | | 2 | | |
| | 13 | WDL173525-6 | SLIT WASHER | | 2 | | |
| | 14 | VGP2401-00A | DC SOLENOID | | 2 | | |
| | 15 | VKB3000-174 | CAPSTAN BELT(B) | | 2 | | |
| | 16 | MSI-5U2LWA | D.C.MOTOR ASS'Y | | 1 | | |
| | 17 | VKR4761-001 | MOTOR PULLEY | | 1 | | |
| | 18 | SPSP2604Z | SCREW | | 2 | | |
| | 19 | VKM3907-001 | JOINT BRACKET | | 1 | | |
| | 20 | SBSF2608Z | T.SCREW | | 6 | | |
| | 21 | VGH0424-037 | ERASE HEAD | | 1 | | |
| | 22 | VGH0425-544 | R/P&E HEAD | | 1 | | |
| | 23 | VKW5302-001 | HEAD SPRING | | 2 | | |
| | 24 | VKZ4730-001 | SPECIAL SCREW | | 4 | | |
| | 25 | VKS2279-00CKP | HEAD MOUNT ASSY | | 1 | | |
| | 26 | VKW5299-001 | PIN.ROL.SP.(R) | | 2 | | |
| | 27 | VKS2277-005 | DIRECTION LEVER | | 2 | | |
| | 28 | VKP4233-00A | PINCH ROL. ASSY | | 4 | | |
| | 29 | VKW5285-001 | RETURN SPRING | | 2 | | |
| | 30 | VKS3786-00EKP | CLUTCH ASSY | | 2 | | |
| | 31 | VKS2275-00C | HEAD MOUNT ASSY | | 1 | | |
| | 32 | VKW5300-001 | PIN.ROL.SP.(L) | | 2 | | |
| | 33 | VKS1167-001KP | HEAD MOUNT BASE | | 2 | | |
| | 34 | VKS2274-002 | REEL GEAR | | 4 | | |
| | 35 | VKM3906-002 | PLAY SW.LEVER | | 2 | | |
| | 36 | VKW5286-002 | B.T. SPRING | | 4 | | |
| | 37 | VKS5559-001 | PLAY IDLE GEAR | | 2 | | |
| | 38 | VKY3149-001 | CASSETTE SP. | | 2 | | |
| | 39 | VKW5279-001 | HEAD BASE SP(R) | | 2 | | |
| | 40 | VKW5280-001 | HEAD BASE SP(L) | | 2 | | |
| | 41 | VKW5296-001 | EARTH SPRING | | 2 | | |
| | 42 | VKS5560-001 | FR IDLE GEAR | | 2 | | |
| | 43 | VKS1166-003KP | CONTROL CAM | | 2 | | |
| | 44 | VKS5577-001 | FPC HOLDER | | 2 | | |
| | 45 | SBSF2608Z | T.SCREW | FOR P.W.B. | 5 | | |
| | 46 | VKR4749-002 | IDLE PULLEY | | 2 | | |
| | 47 | SBSF2006Z | SCREW | | 2 | | |
| | 48 | LV40450-001AKP | CONNECT SP | | 2 | | |

# Electrical Parts List

## ■ Power Supply & Power Amplifier Board

BLOCK NO. 01

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C001 | QFV82AJ-104 | M.CAPA. I.M | .10MF 5% 100V | |
| | C002 | QFV82AJ-104 | M.CAPA. I.M | .10MF 5% 100V | |
| | C003 | QFV82AJ-104 | M.CAPA. I.M | .10MF 5% 100V | |
| | C004 | QETM1HM-228 | E CAPACITOR | 2200MF 20% 50V | |
| | C005 | QETM1HM-228 | E CAPACITOR | 2200MF 20% 50V | |
| | C011 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C012 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C013 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C014 | QETM1HM-228 | E CAPACITOR | 2200MF 20% 50V | |
| | C015 | QETM1HM-228 | E CAPACITOR | 2200MF 20% 50V | |
| | C016 | QET41VM-107 | E CAPACITOR | 100MF 20% 35V | |
| | C017 | QETN1JM-476Z | E CAPACITOR | 47MF 20% 63V | |
| | C018 | QET41HM-226 | E CAPACITOR | 22MF 20% 50V | |
| | C019 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C020 | QET41HM-226 | E CAPACITOR | 22MF 20% 50V | |
| | C021 | QET41HM-475 | E CAPACITOR | 4.7MF 20% 50V | |
| | C022 | QET41HM-475 | E CAPACITOR | 4.7MF 20% 50V | |
| | C023 | QET41HM-474 | E CAPACITOR | .47MF 20% 50V | |
| | C024 | QET41HM-105 | E CAPACITOR | 1.0MF 20% 50V | |
| | C025 | QET41HM-105 | E CAPACITOR | 1.0MF 20% 50V | |
| | C030 | QETN1EM-226Z | E CAPACITOR | 22MF 20% 25V | |
| | C031 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C032 | QETN1EM-226Z | E CAPACITOR | 22MF 20% 25V | |
| | C033 | QFLC1HJ-103ZM | M CAPACITOR | .010MF 5% 50V | |
| | C040 | QETC1HM-224Z | E CAPACITOR | .22MF 20% 50V | |
| | C045 | QET41EM-476 | E CAPACITOR | 47MF 20% 25V | |
| | C060 | QETN1EM-226Z | E CAPACITOR | 22MF 20% 25V | |
| | C061 | QCF11HP-103 | C CAPACITOR | .010MF +80:-20% | |
| | C062 | QETN1EM-226Z | E CAPACITOR | 22MF 20% 25V | |
| | C066 | QETN1EM-226Z | E CAPACITOR | 22MF 20% 25V | |
| | C067 | QCF11HP-103 | C CAPACITOR | .010MF +80:-20% | |
| | C068 | QETN1EM-226Z | E CAPACITOR | 22MF 20% 25V | |
| | C069 | QETN1EM-226Z | E CAPACITOR | 22MF 20% 25V | |
| | C070 | QCF11HP-103 | C CAPACITOR | .010MF +80:-20% | |
| | C071 | QETN1EM-226Z | E CAPACITOR | 22MF 20% 25V | |
| | C072 | QETN1EM-226Z | E CAPACITOR | 22MF 20% 25V | |
| | C073 | QCF11HP-103 | C CAPACITOR | .010MF +80:-20% | |
| | C074 | QETN1EM-226Z | E CAPACITOR | 22MF 20% 25V | |
| | C095 | QFLM1HJ-823Z | M CAPACITOR | .082MF 5% 50V | |
| | C703 | QCBB1HK-101Y | C CAPACITOR | EE EXCEPT | |
| | C704 | QCBB1HK-471Y | C CAPACITOR | EE EXCEPT | |
| | C705 | QCBB1HK-181Y | C CAPACITOR | 180PF 10% 50V | |
| | C706 | QCBB1HK-181Y | C CAPACITOR | 180PF 10% 50V | |
| | C707 | QET41EM-476 | E CAPACITOR | 47MF 20% 25V | |
| | C708 | QET41EM-476 | E CAPACITOR | 47MF 20% 25V | |
| | C709 | QCS11HJ-100 | C CAPACITOR | 10PF 5% 50V | |
| | C710 | QCS11HJ-100 | C CAPACITOR | 10PF 5% 50V | |
| | C711 | QET41HM-226 | E CAPACITOR | 22MF 20% 50V | |
| | C712 | QET41HM-226 | E CAPACITOR | 22MF 20% 50V | |
| | C713 | QFV41HJ-104ZM | TF CAPACITOR | EE EXCEPT | |
| | C714 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C715 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C716 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C721 | QETN1HM-225Z | E CAPACITOR | 2.2MF 20% 50V | |
| | C722 | QTE1V06-106Z | E.CAPA. I.M | | |

BLOCK NO. 01

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C726 | QET41EM-106 | E CAPACITOR | 10MF 20% 25V | |
| | C729 | QET41CM-476 | E CAPACITOR | 47MF 20% 16V | |
| | C739 | QFLC1HJ-103ZM | M CAPACITOR | .010MF 5% 50V | |
| | C751 | QCY31HK-272Z | C.CAPA. I.M | 2700PF 10% 50V | |
| | C752 | QCY31HK-272Z | C.CAPA. I.M | 2700PF 10% 50V | |
| | C753 | QCY31HK-472Z | C.CAPA. I.M | 4700PF 10% 50V | |
| | C754 | QCY31HK-472Z | C.CAPA. I.M | 4700PF 10% 50V | |
| | C755 | QFV41HJ-105 | TF.CAPA. I.M XX | 1.0MF 5% 50V | |
| | C756 | QFV41HJ-105 | TF.CAPA. I.M XX | 1.0MF 5% 50V | |
| | C757 | QCXB1CM-152Y | C CAPACITOR | 1500PF 20% 16V | |
| | C758 | QCXB1CM-152Y | C CAPACITOR | 1500PF 20% 16V | |
| ⚠ | D001 | 1N5402M-20 | DIODE | HIGH | |
| ⚠ | D002 | 1N5402M-20 | DIODE | HIGH | |
| ⚠ | D003 | 1N5402M-20 | DIODE | HIGH | |
| ⚠ | D004 | 1N5402M-20 | DIODE | HIGH | |
| ⚠ | D011 | 30DF2FC | DIODE | LOW | |
| ⚠ | D012 | 30DF2FC | DIODE | LOW | |
| ⚠ | D013 | 30DF2FC | DIODE | LOW | |
| ⚠ | D014 | 30DF2FC | DIODE | LOW | |
| ⚠ | D015 | 30DF2FC | DIODE | CHANGE | |
| ⚠ | D016 | 30DF2FC | DIODE | CHANGE | |
| ⚠ | D017 | 1SR35-100 | SI DIODE | | |
| ⚠ | D018 | 1SR35-100 | SI DIODE | | |
| | D019 | MTZ30JC | ZENER DIODE | | |
| | D020 | UZ6.2BSA | Z.DIODE IDM | | |
| | D021 | MTZ5.1B | ZENER DIODE | | |
| | D022 | 1SS133-T2 | DIODE | | |
| | D023 | 1SS133-T2 | DIODE | | |
| | D024 | 1SS133-T2 | DIODE | | |
| | D025 | 1SS133-T2 | DIODE | | |
| ⚠ | D027 | 1SR35-100 | SI DIODE | | |
| | D030 | MTZ11JA | Z.DIODE I.M | | |
| | D044 | MTZ2.4JB | Z.DIODE I.M | | |
| | D060 | MTZ5.1B | ZENER DIODE | | |
| | D061 | MTZ11JC | Z.DIODE I.M | | |
| | D062 | MTZ13JC | ZENER DIODE | | |
| | D065 | MTZ8.2JC | ZENER DIODE | | |
| | D066 | MTZ13JC | ZENER DIODE | | |
| | D067 | MTZ13JC | ZENER DIODE | | |
| | D068 | MTZ13JC | ZENER DIODE | | |
| | D069 | MTZ13JC | ZENER DIODE | | |
| | D070 | MTZ13JC | ZENER DIODE | SHORT TEST | |
| | D703 | 1SS133-T2 | DIODE | | |
| | D704 | 1SS133-T2 | DIODE | | |
| | D719 | 1SS133-T2 | DIODE | | |
| | D720 | 1SS133-T2 | DIODE | | |
| | D728 | 1SS133-T2 | DIODE | | |
| | D751 | 1SS133-T2 | DIODE | | |
| | D752 | 1SS133-T2 | DIODE | | |
| | D753 | 1SS133-T2 | DIODE | | |
| | D754 | 1SS133-T2 | DIODE | | |
| | D755 | 1SS133-T2 | DIODE | | |
| | D756 | 1SS133-T2 | DIODE | | |
| | D757 | MTZ3.9JB | Z DIODE | | |
| | D758 | MTZ3.9JB | Z DIODE | | |

BLOCK NO. 01

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | D759 | 1SS133-T2 | DIODE | | |
| | D760 | 1SS133-T2 | DIODE | | |
| | L001 | VQZ0048-009 | INDUCTOR | EE EXCEPT | |
| | L701 | EQL0011-R45J1 | INDUCTOR | | |
| | L702 | EQL0011-R45J1 | INDUCTOR | | |
| | Q001 | 2SB1187(F,G) | TRANSISTOR | | |
| | Q003 | DTC114YSA-T | D.TR.I.M | | |
| | Q004 | DTC114YSA-T | D.TR.I.M | | |
| | Q005 | DTC114YS | TR I.M | | |
| | Q030 | 2SD2061/EF/ | TR. | | |
| | Q040 | 2SC945A | TRANSISTOR | | |
| | Q060 | 2SD2061/EF/ | TR. | | |
| | Q061 | 2SC945A | TRANSISTOR | | |
| | Q062 | 2SC945A | TRANSISTOR | | |
| | Q065 | 2SD2061/EF/ | TR. | | |
| | Q066 | 2SD2061/EF/ | TR. | | |
| | Q067 | 2SA933S(RS) | TR.I.M | | |
| | Q068 | 2SC945A | TRANSISTOR | | |
| | Q069 | 2SD2061/EF/ | TR. | | |
| | Q070 | 2SC945A | TRANSISTOR | | |
| | Q071 | 2SB1187(F,G) | TRANSISTOR X* | | |
| | Q072 | 2SA933S(RS) | TR.I.M | | |
| | Q073 | KRA104M-T | D.TR.I.M | | |
| | Q074 | DTC144ESA-T | D.TR.I.M | | |
| | Q075 | KRC104M-T | D.TR.I.M | | |
| | Q076 | DTA144ES | D.TR.I.M | | |
| | Q095 | 2SK301(P,Q) | FET I M | | |
| | Q701 | 2SA1038(R,S) | TR.I.M | | |
| | Q702 | 2SA1038(R,S) | TR.I.M | | |
| | Q726 | 2SC2389S/SE/-T | TR.I.M | | |
| | Q727 | 2SA1038(R,S) | TR.I.M | | |
| | Q728 | 2SC1740S(R,S) | TR.I M | | |
| | Q733 | 2SD2144S(VW) | TRANSISTOR | | |
| | Q734 | 2SD2144S(VW) | TRANSISTOR | | |
| | Q735 | 2SD2144S(VW) | TRANSISTOR | | |
| | Q736 | 2SD2144S(VW) | TRANSISTOR | | |
| | Q737 | KRA111M-T | D.TR.I.M | | |
| | Q751 | 2SC1685/QR/-T | TR.I.M | | |
| | Q752 | 2SA933S(RS) | TR.I.M | | |
| | Q753 | 2SC1685/QR/-T | TR.I.M | | |
| | Q754 | 2SA933S(RS) | TR.I.M | | |
| | Q755 | 2SA965(Y) | TR.I.M | | |
| | Q756 | 2SC2235(O,Y) | TR.I.M | | |
| ⚠ | R002 | QRD14CJ-4R7SX | C RESISTOR | 4.7 5% 1/4W | |
| | R003 | QRD167J-332 | C RESISTOR | 3.3K 5% 1/4W | |
| | R004 | QRD161J-223 | C RESISTOR | 22K 5% 1/4W | |
| | R005 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| ⚠ | R006 | QRD14CJ-2R2SX | C RESISTOR | 2.2 5% 1/4W | |
| | R007 | QRZ0077-4R7X | F RESISTOR | 4.7 1/0W | |
| | R008 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R009 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R010 | QRD161J-472 | C RESISTOR | 4.7K 5% 1/4W | |
| | R011 | QRD161J-472 | C RESISTOR | 4.7K 5% 1/4W | |
| | R012 | QRD161J-683 | C RESISTOR | 68K 5% 1/4W | |
| | R013 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |

BLOCK NO. 01

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R030 | QRD14CJ-4R7SX | C RESISTOR | 4.7 5% 1/4W | |
| | R031 | QRD161J-681 | C RESISTOR | 680 5% 1/4W | |
| | R040 | QRD12CJ-471SX | C RESISTOR | 470 5% 1/2W | |
| | R041 | QRD12CJ-471SX | C RESISTOR | 470 5% 1/2W | |
| | R042 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R045 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R048 | QRD161J-473 | C RESISTOR | 47K 5% 1/4W | |
| | R049 | QRD161J-153 | C RESISTOR | 15K 5% 1/4W | |
| | R062 | QRD161J-331 | C RESISTOR | 330 5% 1/4W | |
| | R063 | QRD161J-331 | C RESISTOR | 330 5% 1/4W | |
| | R064 | QRD161J-122 | C RESISTOR | 1.2K 5% 1/4W | |
| | R065 | QRD161J-561 | C RESISTOR | 560 5% 1/4W | |
| | R066 | QRD161J-561 | C RESISTOR | 560 5% 1/4W | |
| | R067 | QRD161J-122 | C RESISTOR | 1.2K 5% 1/4W | |
| | R068 | QRD161J-331 | C RESISTOR | 330 5% 1/4W | |
| | R071 | QRD167J-4R7 | C RESISTOR | 4.7 5% 1/4W | |
| | R072 | QRD167J-4R7 | C RESISTOR | 4.7 5% 1/4W | |
| ⚠ | R074 | QRZ9021-220 | FUSI RESISTOR | 22 1/0W | |
| ⚠ | R075 | QRG022J-220AM | UNF.OMF.RES. | 22 5% 1/2W | |
| | R076 | QRD161J-221 | C RESISTOR | 220 5% 1/4W | |
| | R077 | QRD161J-681 | C RESISTOR | 680 5% 1/4W | |
| | R078 | QRD161J-182 | C RESISTOR | 1.8K 5% 1/4W | |
| | R081 | QRD161J-272 | C RESISTOR | 2.7K 5% 1/4W | |
| | R082 | QRD167J-562 | C RESISTOR | 5.6K 5% 1/4W | |
| | R084 | QRD161J-272 | C RESISTOR | 2.7K 5% 1/4W | |
| | R085 | QRD167J-562 | C RESISTOR | 5.6K 5% 1/4W | |
| | R086 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R087 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R090 | QRD161J-102 | C RESISTOR | FMB REQUEST | |
| | R091 | QRD161J-102 | C RESISTOR | FMB REQUEST | |
| | R092 | QRD161J-102 | C RESISTOR | FMB REQUEST | |
| | R093 | QRD161J-102 | C RESISTOR | FMB REQUEST | |
| | R094 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R095 | QRD161J-392 | C RESISTOR | 3.9K 5% 1/4W | |
| | R096 | QRD161J-105 | C RESISTOR | 1.0M 5% 1/4W | |
| | R097 | QRD161J-475 | C RESISTOR | 4.7M 5% 1/4W | |
| | R701 | QRD14CJ-100SX | UNF.C.RES. I.M | 10 5% 1/4W | |
| | R702 | QRD14CJ-100SX | UNF.C.RES. I.M | 10 5% 1/4W | |
| | R703 | QRD161J-563 | C RESISTOR | 56K 5% 1/4W | |
| | R704 | QRD161J-563 | C RESISTOR | 56K 5% 1/4W | |
| | R705 | QRD14CJ-182SX | UNF.C.RES. I.M | 1.8K 5% 1/4W | |
| | R706 | QRD14CJ-182SX | UNF.C.RES. I.M | 1.8K 5% 1/4W | |
| | R707 | QRD161J-563 | C RESISTOR | 56K 5% 1/4W | |
| | R708 | QRD161J-563 | C RESISTOR | 56K 5% 1/4W | |
| | R709 | QRX014J-R22 | UNF.MF.RES.I.M | 5% 1/1W | |
| | R710 | QRX014J-R22 | UNF.MF.RES.I.M | 5% 1/1W | |
| | R711 | QRX014J-R22 | UNF.MF.RES.I.M | 5% 1/1W | |
| | R712 | QRX014J-R22 | UNF.MF.RES.I.M | 5% 1/1W | |
| | R713 | QRD14CJ-100SX | UNF.C.RES. I.M | 10 5% 1/4W | |
| | R714 | QRD14CJ-100SX | UNF.C.RES. I.M | 10 5% 1/4W | |
| | R715 | QRD14CJ-100SX | UNF.C.RES. I.M | 10 5% 1/4W | |
| | R716 | QRD14CJ-100SX | UNF.C.RES. I.M | 10 5% 1/4W | |
| | R717 | QRD161J-122 | C RESISTOR | 1.2K 5% 1/4W | |
| | R718 | QRD161J-122 | C RESISTOR | 1.2K 5% 1/4W | |
| | R719 | QRD161J-223 | C RESISTOR | 22K 5% 1/4W | |

BLOCK NO. 01

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R720 | QRD161J-223 | C RESISTOR | 22K 5% 1/4W | |
| | R721 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R722 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R723 | QRD161J-473 | C RESISTOR | 47K 5% 1/4W | |
| | R724 | QRD161J-473 | C RESISTOR | 47K 5% 1/4W | |
| | R725 | QRD161J-823 | C RESISTOR | 82K 5% 1/4W | |
| | R726 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R727 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R728 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R729 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R730 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R731 | QRE141J-183Y | C RESISTOR | 18K 5% 1/4W | |
| | R732 | QRE141J-183Y | C RESISTOR | 18K 5% 1/4W | |
| | R733 | QRD161J-473 | C RESISTOR | 47K 5% 1/4W | |
| | R734 | QRD161J-472 | C RESISTOR | 4.7K 5% 1/4W | |
| | R735 | QRD161J-473 | C RESISTOR | 47K 5% 1/4W | |
| | R736 | QRD161J-472 | C RESISTOR | 4.7K 5% 1/4W | |
| | R739 | QRG01DJ-821X | OMF RESISTOR | 820 5% 1/1W | |
| | R740 | QRG01DJ-821X | OMF RESISTOR | 820 5% 1/1W | |
| | R751 | QRD161J-223 | C RESISTOR | 22K 5% 1/4W | |
| | R752 | QRD161J-223 | C RESISTOR | 22K 5% 1/4W | |
| | R753 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R754 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R755 | QRD161J-221 | C RESISTOR | 220 5% 1/4W | |
| | R756 | QRD161J-221 | C RESISTOR | 220 5% 1/4W | |
| | R757 | QRD161J-223 | C RESISTOR | 22K 5% 1/4W | |
| | R758 | QRD161J-223 | C RESISTOR | 22K 5% 1/4W | |
| | R759 | QRD167J-682 | C RESISTOR | 6.8K 5% 1/4W | |
| | R760 | QRD167J-682 | C RESISTOR | 6.8K 5% 1/4W | |
| | R761 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R762 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R763 | QRD161J-223 | C RESISTOR | 22K 5% 1/4W | |
| | R764 | QRD161J-223 | C RESISTOR | 22K 5% 1/4W | |
| | R765 | QRG01DJ-182X | OMF RESISTOR | 1.8K 5% 1/1W | |
| | R766 | QRG01DJ-182X | OMF RESISTOR | 1.8K 5% 1/1W | |
| | R767 | QRD14CJ-681SX | UNF C RES I M | 680 5% 1/4W | |
| | R768 | QRD14CJ-681SX | UNF C RES I M | 680 5% 1/4W | |
| | R769 | QRD14CJ-821SX | C RESISTOR | 820 5% 1/4W | |
| | R770 | QRD14CJ-821SX | C RESISTOR | 820 5% 1/4W | |
| | R771 | QRD161J-821 | C RESISTOR | 820 5% 1/4W | |
| | R772 | QRD161J-821 | C RESISTOR | 820 5% 1/4W | |
| | R773 | QRD14CJ-101SX | UF RESISTOR | 100 5% 1/4W | |
| | R774 | QRD14CJ-101SX | UF RESISTOR | 100 5% 1/4W | |
| | R775 | QRD161J-471 | C RESISTOR | 470 5% 1/4W | |
| | R776 | QRD161J-471 | C RESISTOR | 470 5% 1/4W | |
| | R777 | QRD14CJ-4R7SX | C RESISTOR | 4.7 5% 1/4W | |
| | R778 | QRD14CJ-4R7SX | C RESISTOR | 4.7 5% 1/4W | |
| | R779 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R780 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | C 799 | QFLC1HJ-103ZM | M CAPACITOR | EE EXCEPT | |
| | CN002 | EMV7163-011 | CONNECTOR | TO FMH-014-3 RE | |
| | CN003 | EMV7163-011 | CONNECTOR | TO FMH-014-4 FR | |
| | CN005 | EMV7163-011 | CONNECTOR | TO SPK BOARD | |
| | CN006 | EMV5163-010R | CONNECTOR | TO FMC (MAIN) | |
| | CN007 | QGF1201C3-12 | VMC0332-012 | TO FMB (MICOM) | |

BLOCK NO. 01

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | CN009 | SV40-05WS | CONNECTOR | TO TRANS | |
| | CN012 | EMV5163-011R | CONECTOR | TO FMH-014-2 | |
| | CN013 | EMV5163-011R | CONECTOR | TO FMH-014-2 | |
| | CN019 | EWS285-202V | SKT WIRE | | |
| | CN111 | EMV7145-004Z | SOCKET I.M | TO TRANS | |
| | CN703 | EMV5163-007R | CONNECTOR | | |
| | CN915 | EMV7145-004Z | SOCKET I.M | FOR H/PHONE FW | |
| ⚠ | CP 1 | ICP-N15 | ICP I.M | | |
| | EP001 | EMZ4002-002Z | IM EARTH PLATE | TO GND CHASSIS | |
| | FT011 | EMG7331-003Z | FUSE CLIP I.M | F001 LIVE FUSE | |
| | FT012 | EMG7331-003Z | FUSE CLIP I.M | F001 LIVE FUSE | |
| | FT511 | EMG7331-003Z | FUSE CLIP I.M | F101 SEC FUSE | |
| | FT512 | EMG7331-003Z | FUSE CLIP I.M | F101 SEC FUSE | |
| | FT521 | EMG7331-003Z | FUSE CLIP I.M | F102 SEC FUSE | |
| | FT522 | EMG7331-003Z | FUSE CLIP I.M | F102 SEC FUSE | |
| | FW101 | EWR34D-14LSV | EF WIRE | | |
| | IC701 | TDA7294 | I.C. | | |
| | IC702 | TDA7294 | I.C. | | |
| | R 100 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | TB001 | EMZ4001-002Z | TAB I.M | | |
| | TB002 | EMZ4001-002Z | TAB I.M | | |
| ⚠ | TH002 | QAD0095-4R7Z | POSISTOR I.M | | |
| | TW799 | EWPZ01-025 | TER.WIRE.ASSY | EE EXCEPT | |
| | W 019 | QWE880-13RR | WIRE | EE EXCEPT | |

## ■ Main Amlifier & Tuner Board

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C360 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C365 | QET41CM-227 | E CAPACITOR | 220MF 20% 16V | |
| | C366 | QET41AM-108 | E CAPACITOR | 1000MF 20% 10V | |
| | C372 | EETB1HM-475E | E.CAPA. I.M | | |
| | C373 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C380 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C381 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C382 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C383 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C383 | EETC1EM-476ZE | E CAPACITOR | | |
| | C385 | EETB1HM-105E | E.CAPA. I.M | | |
| | C386 | QCBB1HK-681Y | C CAPACITOR | 680PF 10% 50V | |
| | C387 | QFLC1HJ-153ZM | M CAPACITOR | .015MF 5% 50V | |
| | C388 | QCXB1CM-182Y | C CAPACITOR | 1800PF 20% 16V | |
| | C389 | QCS11HJ-330 | C CAPACITOR | 33PF 5% 50V | |
| | C390 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C401 | QFLM1HJ-222Z | M CAPACITOR | 2200PF 5% 50V | |
| | C402 | QFLM1HJ-472Z | M CAPACITOR | 4700PF 5% 50V | |
| | C403 | QFLM1HJ-102Z | M CAPACITOR | 1000PF 5% 50V | |
| | C404 | QFLM1HJ-102Z | M CAPACITOR | 1000PF 5% 50V | |
| | C407 | EETB1EM-106E | E.CAPA. I.M | | B,E,EN |
| | C408 | QTE1V06-106Z | E.CAPA. I.M | | B,E,EN |
| | C411 | EETB1EM-106E | E.CAPA. I.M | | |
| | C412 | EETB1EM-106E | E.CAPA. I.M | | |
| | C413 | QCBB1HK-471Y | C CAPACITOR | 470PF 10% 50V | |
| | C414 | QCBB1HK-471Y | C CAPACITOR | 470PF 10% 50V | |
| | C415 | EETB1EM-106E | E.CAPA. I.M | | |
| | C416 | EETB1EM-106E | E.CAPA. I.M | | |
| | C417 | EETB1EM-106E | E.CAPA. I.M | | |
| | C418 | QETC1HM-225ZM | E.CAPA. I.M | 2.2MF 20% 50V | |
| | C419 | EETB1EM-106E | E.CAPA. I.M | | |
| | C420 | QET41AM-227 | E CAPACITOR | 220MF 20% 10V | |
| | C421 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C422 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C423 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C424 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C425 | QFLC1HJ-183ZM | M CAPACITOR | .018MF 5% 50V | |
| | C426 | QFLC1HJ-183ZM | M CAPACITOR | .018MF 5% 50V | |
| | C427 | QFLC1HJ-223ZM | M CAPACITOR | .022MF 5% 50V | |
| | C428 | QFLC1HJ-223ZM | M CAPACITOR | .022MF 5% 50V | |
| | C429 | QFLM1HJ-562Z | M CAPACITOR | 5600PF 5% 50V | |
| | C430 | QFLM1HJ-562Z | M CAPACITOR | 5600PF 5% 50V | |
| | C431 | QETC1HM-225ZM | E.CAPA. I.M | 2.2MF 20% 50V | |
| | C432 | QETC1HM-225ZM | E.CAPA. I.M | 2.2MF 20% 50V | |
| | C433 | EETB1HM-105E | E.CAPA. I.M | | |
| | C434 | EETB1HM-105E | E.CAPA. I.M | | |
| | C435 | EETB1EM-106E | E.CAPA. I.M | | |
| | C436 | EETB1EM-106E | E.CAPA. I.M | | |
| | C445 | QCBB1HK-101Y | C CAPACITOR | 100PF 10% 50V | |
| | C446 | QCBB1HK-101Y | C CAPACITOR | 100PF 10% 50V | |
| | C447 | EETB1EM-106E | E.CAPA. I.M | | |
| | C448 | EETB1EM-106E | E.CAPA. I.M | | |
| | C453 | QCBB1HK-101Y | C CAPACITOR | 100PF 10% 50V | B,E,EN |
| | C454 | QCBB1HK-101Y | C CAPACITOR | 100PF 10% 50V | |
| | C455 | QCBB1HK-101Y | C CAPACITOR | 100PF 10% 50V | B,E,EN |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C457 | EETB1EM-106E | E.CAPA. I.M | | |
| | C458 | EETB1EM-106E | E.CAPA. I.M | | |
| | C459 | QFLM1HJ-333Z | M CAPACITOR | .033MF 5% 50V | |
| | C460 | EETB1HM-475E | E.CAPA. I.M | | |
| | C461 | QETB1HM-474N | E.CAPA. I.M | .47MF 20% 50V | |
| | C462 | QFLC1HJ-393ZM | M CAPACITOR | .039MF 5% 50V | |
| | C463 | EETB1HM-475E | E.CAPA. I.M | | |
| | C465 | QFLC1HJ-393ZM | M CAPACITOR | .039MF 5% 50V | |
| | C466 | QFLC1HJ-473ZM | M CAPACITOR | .047MF 5% 50V | |
| | C467 | EETB1HM-105E | E.CAPA. I.M | | |
| | C468 | QETC1EM-476ZM | E.CAPA. I.M | 47MF 20% 25V | |
| | C469 | QCBB1HK-101Y | C CAPACITOR | 100PF 10% 50V | B,E,EN |
| | C470 | QCBB1HK-101Y | C CAPACITOR | 100PF 10% 50V | B,E,EN |
| | C471 | QCBB1HK-101Y | C CAPACITOR | 100PF 10% 50V | |
| | C472 | QCBB1HK-101Y | C CAPACITOR | 100PF 10% 50V | |
| | C473 | QETC1EM-476ZM | E.CAPA. I.M | 47MF 20% 25V | |
| | C474 | QETC1EM-476ZM | E.CAPA. I.M | 47MF 20% 25V | |
| | C475 | EETB1EM-106E | E.CAPA. I.M | | |
| | C476 | QTE1V06-106Z | E.CAPA. I.M | | |
| | C477 | EETB1HM-475E | E.CAPA. I.M | | |
| | C483 | QCXB1CM-222Y | C CAPACITOR | 2200PF 20% 16V | |
| | C484 | QCBB1HK-101Y | C CAPACITOR | 100PF 10% 50V | B,E,EN |
| | C489 | QET41CM-476 | E CAPACITOR | 47MF 20% 16V | |
| | C490 | QET41CM-476 | E CAPACITOR | 47MF 20% 16V | |
| | C493 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C494 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C495 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C496 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | |
| | C581 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C582 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C583 | QFV71HJ-103 | TF CAPACITOR | .010MF 5% 50V | B,E,EN |
| | C584 | QCF11HP-103 | C CAPACITOR | .010MF +80:-20% | B,E,EN |
| | C589 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | D301 | 1SR35-100 | SI DIODE | | |
| | D302 | MTZ3.9JB | Z DIODE | | |
| | D303 | 1SS133-T2 | DIODE | | |
| | D304 | 1SR35-100 | SI DIODE | | |
| | D305 | 1SS133-T2 | DIODE | | |
| | D306 | 1SS133-T2 | DIODE | | |
| | D307 | 1SS133-T2 | DIODE | | |
| | D403 | 1SR35-100 | SI DIODE | | |
| | D481 | 1SS133-T2 | DIODE | | |
| | D482 | 1SS133-T2 | DIODE | | |
| | J401 | EMN00TV-222AJ2 | PIN JACK | | |
| | L401 | QQL29BJ-100Z | INDUCTOR | | |
| | L402 | VQZ0048-009 | INDUCTOR | | B,E,EN |
| | L403 | VQZ0048-009 | INDUCTOR | | B,E,EN |
| | L404 | VQZ0048-009 | INDUCTOR | | B,E,EN |
| | L405 | VQZ0048-009 | INDUCTOR | | B,E,EN |
| | Q301 | 2SD2144S(VW) | TRANSISTOR | | |
| | Q302 | 2SD2144S(VW) | TRANSISTOR | | |
| | Q304 | 2SA1175 | TRANSISTOR | | |
| | Q305 | 2SC2785 | TRANSISTOR | | |
| | Q306 | 2SC2785 | TRANSISTOR | | |
| | Q307 | 2SC2785 | TRANSISTOR | | |

BLOCK NO. 02□□□□□

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | Q308 | DTC144TSA-T | D.TR.I.M | | |
| | Q401 | 2SD2144S(VW) | TRANSISTOR | | |
| | Q402 | 2SD2144S(VW) | TRANSISTOR | | |
| | Q403 | KRA102M-T | D.TR.I.M | | |
| | Q404 | DTC114YSA-T | D.TR.I.M | SA BASS LED | |
| | R360 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R361 | QRZ0077-470 | F RES I M | 47 1/0W | |
| | R362 | QRD161J-221 | C RESISTOR | 220 5% 1/4W | |
| | R370 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R371 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R372 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | B,E,EN |
| | R373 | QRD161J-390 | C RESISTOR | 39 5% 1/4W | |
| | R375 | QRD161J-331 | C RESISTOR | 330 5% 1/4W | |
| | R377 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R378 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R383 | QRD161J-472 | C RESISTOR | 4.7K 5% 1/4W | |
| | R384 | QRD161J-472 | C RESISTOR | 4.7K 5% 1/4W | |
| | R386 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R387 | QRD161J-473 | C RESISTOR | 47K 5% 1/4W | |
| | R388 | QRD161J-220 | C RESISTOR | 22 5% 1/4W | |
| | R389 | QRD161J-225 | C RESISTOR | 2.2M 5% 1/4W | |
| | R401 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R402 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R403 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R404 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R405 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R406 | QRD161J-152 | C RESISTOR | 1.5K 5% 1/4W | |
| | R407 | QRD167J-562 | C RESISTOR | 5.6K 5% 1/4W | |
| | R408 | QRD167J-562 | C RESISTOR | 5.6K 5% 1/4W | |
| | R413 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R414 | QRD161J-123 | C RESISTOR | 12K 5% 1/4W | |
| | R415 | QRD161J-823 | C RESISTOR | 82K 5% 1/4W | |
| | R416 | QRD161J-823 | C RESISTOR | 82K 5% 1/4W | |
| | R417 | QRD167J-562 | C RESISTOR | 5.6K 5% 1/4W | |
| | R418 | QRD167J-562 | C RESISTOR | 5.6K 5% 1/4W | |
| | R419 | QRD161J-272 | C RESISTOR | 2.7K 5% 1/4W | |
| | R420 | QRD161J-272 | C RESISTOR | 2.7K 5% 1/4W | |
| | R421 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R422 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R433 | QRD167J-562 | C RESISTOR | 5.6K 5% 1/4W | |
| | R434 | QRD167J-562 | C RESISTOR | 5.6K 5% 1/4W | |
| | R435 | QRD161J-822 | C RESISTOR | 8.2K 5% 1/4W | |
| | R436 | QRD161J-472 | C RESISTOR | 4.7K 5% 1/4W | |
| | R437 | QRD161J-472 | C RESISTOR | 4.7K 5% 1/4W | |
| | R438 | QRD161J-472 | C RESISTOR | 4.7K 5% 1/4W | |
| | R439 | QRD161J-432 | C RESISTOR | 4.3K 5% 1/4W | |
| | R440 | QRD161J-432 | C RESISTOR | 4.3K 5% 1/4W | |
| | R441 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R442 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R445 | QRD161J-303Y | C RESISTOR | 30K 5% 1/4W | |
| | R446 | QRD161J-303Y | C RESISTOR | 30K 5% 1/4W | |
| | R447 | QRD161J-153 | C RESISTOR | 15K 5% 1/4W | |
| | R450 | QRD161J-224 | C RESISTOR | 220K 5% 1/4W | |
| | R453 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R454 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |

BLOCK NO. 02□□□□□

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R455 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R456 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R457 | QRD161J-752 | C RESISTOR | 7.5K 5% 1/4W | |
| | R458 | QRD167J-562 | C RESISTOR | 5.6K 5% 1/4W | |
| | R459 | QRD161J-472 | C RESISTOR | 4.7K 5% 1/4W | |
| | R460 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R461 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R462 | QRD161J-221 | C RESISTOR | 220 5% 1/4W | |
| | R463 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R464 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R465 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R469 | QRD161J-221 | C RESISTOR | 220 5% 1/4W | |
| | R470 | QRD161J-221 | C RESISTOR | 220 5% 1/4W | |
| | R471 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R472 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R473 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R493 | QRD167J-113 | C RESISTOR | 11K 5% 1/4W | |
| | R494 | QRD161J-203 | C RESISTOR | 20K 5% 1/4W | |
| | R497 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R498 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R546 | QRD161J-473 | C RESISTOR | 47K 5% 1/4W | |
| | R547 | QRD161J-473 | C RESISTOR | 47K 5% 1/4W | |
| | R548 | QRD161J-563 | C RESISTOR | 56K 5% 1/4W | |
| | R549 | QRD161J-563 | C RESISTOR | 56K 5% 1/4W | |
| | R555 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R556 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R573 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R576 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R578 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R579 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R580 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R581 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R582 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R583 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R584 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R585 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R586 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R587 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R588 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R589 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R590 | QRD161J-223 | C RESISTOR | 22K 5% 1/4W | |
| | R591 | QRD161J-223 | C RESISTOR | 22K 5% 1/4W | B,E,EN |
| | R593 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R594 | QRD161J-101 | C RESISTOR | 100 5% 1/4W | |
| | R595 | QRD161J-181 | C RESISTOR | 180 5% 1/4W | B,E,EN |
| | R597 | QRD161J-472 | C RESISTOR | 4.7K 5% 1/4W | |
| | R599 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | C 1 | QCC11EM-223V | C CAPACITOR | .022MF 20% 25V | |
| | C 3 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | C 4 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C 5 | QET41CM-476 | E CAPACITOR | 47MF 20% 16V | |
| | C 8 | QCS11HJ-150 | C CAPACITOR | 15PF 5% 50V | B,E,EN |
| | C 12 | QCS11HJ-100 | C CAPACITOR | 10PF 5% 50V | |
| | C 13 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | B,E,EN |
| | C 18 | QCBB1HK-471Y | C CAPACITOR | 470PF 10% 50V | |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 19 | QCBB1HK-471Y | C CAPACITOR | 470PF 10% 50V | |
| | C 21 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | C 30 | QEK41CM-476 | E CAPACITOR | 47MF 20% 16V | |
| | C 31 | QCS31HJ-390Z | C CAPACITOR | 39PF 5% 50V | |
| | C 32 | QCGB1HK-102 | C CAPACITOR | 1000PF 10% 50V | |
| | C 33 | QEK61AM-107ZM | E CAPACITOR | 100MF 20% 10V | |
| | C 34 | QCS11HJ-150 | C CAPACITOR | 15PF 5% 50V | |
| | C 35 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C 36 | QEK41CM-106 | E CAPACITOR | 10MF 20% 16V | |
| | C 37 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C 38 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | C 39 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | C 40 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C 41 | QEK41HM-104 | E CAPACITOR | .10MF 20% 50V | |
| | C 42 | QEK41HM-474 | E CAPACITOR | .47MF 20% 50V | |
| | C 43 | QEK61HM-335ZN | E CAPACITOR | 3.3MF 20% 50V | B,E,EN |
| | C 44 | QCBB1HK-221Y | C CAPACITOR | 220PF 10% 50V | B,E,EN |
| | C 45 | QEK61HM-335ZN | E CAPACITOR | 3.3MF 20% 50V | |
| | C 46 | QCC11EM-223V | C CAPACITOR | .022MF 20% 25V | |
| | C 47 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C 49 | QFLC1HJ-223ZM | M CAPACITOR | .022MF 5% 50V | |
| | C 50 | QFLC1HJ-393ZM | M CAPACITOR | .039MF 5% 50V | |
| | C 51 | QEK41HM-105 | E CAPACITOR | 1.0MF 20% 50V | |
| | C 52 | QEK41HM-105 | E CAPACITOR | 1.0MF 20% 50V | |
| | C 53 | QCGB1HK-102 | C CAPACITOR | 1000PF 10% 50V | B,E,EN |
| | C 54 | QEK61HM-335ZN | E CAPACITOR | 3.3MF 20% 50V | B,E,EN |
| | C 55 | QCS11HJ-120 | C CAPACITOR | 12PF 5% 50V | |
| | C 60 | QEK61AM-107ZM | E CAPACITOR | 100MF 20% 10V | |
| | C 61 | QCS11HJ-120 | C CAPACITOR | 12PF 5% 50V | |
| | C 62 | QCS11HJ-120 | C CAPACITOR | 12PF 5% 50V | |
| | C 63 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | C 65 | QCGB1HK-102 | C CAPACITOR | 1000PF 10% 50V | |
| | C 66 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C 67 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C 68 | QCBB1HK-101Y | C CAPACITOR | 100PF 10% 50V | B,E,EN |
| | C 69 | QFV41HJ-105 | TF.CAPA. I.M XX | 1.0MF 5% 50V | |
| | C 70 | QCXB1CM-392Y | C CAPACITOR | 3900PF 20% 16V | |
| | C 71 | QET41CM-476 | E CAPACITOR | 47MF 20% 16V | |
| | C 72 | QCGB1HK-102 | C CAPACITOR | 1000PF 10% 50V | |
| | C 80 | QCBB1HK-820Y | C CAPACITOR | 82PF 10% 50V | |
| | C 81 | QCS11HJ-470 | C CAPACITOR | 47PF 5% 50V | |
| | C 82 | EETC1CM-106ZJC | E.CAPACITOR | | |
| | C 83 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | C 84 | QETC1HM-225ZM | E.CAPA. I.M | 2.2MF 20% 50V | |
| | C 85 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | |
| | C 86 | QCBB1HK-561Y | C CAPACITOR | 560PF 10% 50V | |
| | C 89 | QCGB1HK-102 | C CAPACITOR | 1000PF 10% 50V | |
| | C 90 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C 98 | QCS11HJ-100 | C CAPACITOR | 10PF 5% 50V | B,E,EN |
| | CF 1 | VCF2M3B-104 | C FILTER | | |
| | CF 2 | VCF2S3B-102 | C FILTER | | |
| | CF 3 | VCF1Z2Z-115Z | C FILTER | | |
| | CF 4 | CMU2-456A05 | CERA LOCK | | |
| | CN410 | EMV7171-119 | CONNECTOR | MAIN-VC3 | |
| | CN411 | QGF1201C3-20 | FFC/FPC CONNE | FMB-MAIN | |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | CN412 | VMC0332-010V | CONNECTOR | MAIN-SLC | |
| | CN413 | VMC0332-016V | FFC/FPC CONNE | FMB-MAIN | |
| | CN415 | EMV7145-004Z | SOCKET I.M | MAIN-C.BRD | |
| | CN416 | QGB2510J1-10 | CONNECTOR | FMH-FMC** | |
| | CN420 | EMV7163-009 | CONNECTOR | | EE |
| | D 1 | 1SS133-T2 | DIODE | | |
| | D 2 | 1SS133-T2 | DIODE | | |
| | D 3 | 1SS133-T2 | DIODE | | |
| | D 4 | 1SS133-T2 | DIODE | | |
| | EP001 | E409182-001SM | GRAND TERMINAL | | |
| | IC 1 | TA2057N | IC | | |
| | IC 2 | LC72136N | IC | | |
| | IC 4 | BU1923 | IC(RDS) | | |
| | IC401 | TDA7439 | IC | MAIN VOL | |
| | IC402 | BA15218 | IC | | |
| | IC403 | BA15218 | IC | KARAOKE | |
| | IC405 | BA15218 | IC | | |
| | IC406 | LA2650 | IC | | |
| | IC407 | BA15218 | IC | | |
| | IC542 | BA3835S | IC | | |
| | J 1 | EMB41YV-302K | ANT TERMINAL | | |
| | L 1 | VQZ0098-202 | COIL BLOCK | | |
| | L 4 | VQP0018-221 | INDUCTOR | | |
| | L 5 | EQL4007-101 | INDUCTOR I.M | | |
| | L 10 | VQZ0069-002S | TRAP COIL | | B,E,EN |
| | L 11 | VQP0018-2R7 | INDUCTOR | | |
| | L 12 | VQP0018-330 | INDUCTOR | | B,E,EN |
| | PP001 | QZW0007-001 | POST PIN | | |
| | Q 1 | 2SC1923 | TR TAPE | | |
| | Q 2 | DTA114YS | D.TR.I.M | | |
| | Q 3 | 2SC2785 | TRANSISTOR | | |
| | Q 4 | 2SC2785 | TRANSISTOR | | |
| | Q 6 | DTA114YS | D.TR.I.M | | |
| | Q 14 | 2SA1175 | TRANSISTOR | | |
| | Q 16 | 2SC2785 | TRANSISTOR | | B,E,EN |
| | R 1 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 2 | QRD167J-121 | C RESISTOR | 120 5% 1/4W | |
| | R 3 | QRD161J-560 | C RESISTOR | 56 5% 1/4W | |
| | R 10 | QRD161J-152 | C RESISTOR | 1.5K 5% 1/4W | |
| | R 12 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 13 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R 15 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 16 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 20 | QRD161J-331 | C RESISTOR | 330 5% 1/4W | |
| | R 21 | QRD161J-224 | C RESISTOR | 220K 5% 1/4W | |
| | R 22 | QRD161J-331 | C RESISTOR | 330 5% 1/4W | |
| | R 24 | QRD161J-271 | C RESISTOR | 270 5% 1/4W | |
| | R 25 | QRD161J-473 | C RESISTOR | 47K 5% 1/4W | |
| | R 26 | QRD161J-273 | C RESISTOR | 27K 5% 1/4W | B,E,EN |
| | R 27 | QRD161J-223 | C RESISTOR | 22K 5% 1/4W | |
| | R 29 | QRD161J-473 | C RESISTOR | 47K 5% 1/4W | |
| | R 30 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 31 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 32 | QRD161J-273 | C RESISTOR | 27K 5% 1/4W | EE |
| | R 34 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 35 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R 36 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 37 | QRD167J-562 | C RESISTOR | 5.6K 5% 1/4W | |
| | R 38 | QRD161J-392 | C RESISTOR | 3.9K 5% 1/4W | |
| | R 39 | QRD161J-392 | C RESISTOR | 3.9K 5% 1/4W | |
| | R 42 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 43 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 44 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 45 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 46 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R 47 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 48 | QRD161J-331 | C RESISTOR | 330 5% 1/4W | |
| | R 49 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 52 | QRD161J-472 | C RESISTOR | 4.7K 5% 1/4W | |
| | R 54 | QRD161J-472 | C RESISTOR | 4.7K 5% 1/4W | |
| | R 55 | QRD161J-182 | C RESISTOR | 1.8K 5% 1/4W | |
| | R 56 | QRD167J-332 | C RESISTOR | 3.3K 5% 1/4W | |
| | R 57 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 60 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 61 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 64 | QRD161J-473 | C RESISTOR | 47K 5% 1/4W | |
| | R 65 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R 66 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R 69 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 70 | QRD161J-393 | C RESISTOR | 39K 5% 1/4W | B,E,EN |
| | R 71 | QRD161J-823 | C RESISTOR | 82K 5% 1/4W | B,E,EN |
| | R 72 | QRD161J-122 | C RESISTOR | 1.2K 5% 1/4W | B,E,EN |
| | R 73 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | B,E,EN |
| | R 74 | QRD167J-332 | C RESISTOR | 3.3K 5% 1/4W | B,E,EN |
| | R 75 | QRD161J-822 | C RESISTOR | 8.2K 5% 1/4W | B,E,EN |
| | R 76 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 80 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R 82 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 83 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 84 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 91 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 100 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 101 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 102 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 103 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R 104 | QRD161J-512 | C RESISTOR | 5.1K 5% 1/4W | |
| | SP 56 | VYSA1R4-056 | SPACER | | |
| | T 1 | VQT7A21-113 | IFT | | |
| | TH401 | PTH8L07BB2R2N1 | POSISTOR I.M | | |
| | TU 1 | QAU0034-001 | FRONT END | | |
| | X 1 | QAX0402-001 | CRYSTAL | | |
| | X 2 | VCX5057-001 | CRYSTAL | | |

## ■ System C.P.U & Operation Switch Board

BLOCK NO. 03

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | J81 | QNB0088-001 | SPK.TERMINAL | | B,E,EN |
| | C 100 | EETB1HM-105E | E.CAPA. I.M | | EE |
| | C 101 | EETC1HM-335ZE | E.CAPACITOR | | EE |
| | C 103 | QFLC1HJ-103ZM | M CAPACITOR | .010MF 5% 50V | EE |
| | C 104 | QFLC1HJ-103ZM | M CAPACITOR | .010MF 5% 50V | EE |
| | C 105 | QCBB1HK-271Y | C CAPACITOR | 270PF 10% 50V | EE |
| | C 106 | QCBB1HK-271Y | C CAPACITOR | 270PF 10% 50V | EE |
| | C 107 | EETB1HM-475E | E.CAPA. I.M | | EE |
| | C 108 | EETB1HM-475E | E.CAPA. I.M | | EE |
| | C 109 | QCXB1CM-222Y | C CAPACITOR | 2200PF 20% 16V | EE |
| | C 110 | QCXB1CM-222Y | C CAPACITOR | 2200PF 20% 16V | EE |
| | C 111 | QET41AM-226 | E CAPACITOR | 22MF 20% 10V | EE |
| | C 112 | QFLM1HJ-822Z | M CAPACITOR | 8200PF 5% 50V | EE |
| | C 113 | QFLC1HJ-103ZM | M CAPACITOR | .010MF 5% 50V | EE |
| | C 114 | QFLC1HJ-103ZM | M CAPACITOR | .010MF 5% 50V | EE |
| | C 115 | EETB1HM-105E | E.CAPA. I.M | | EE |
| | C 116 | QETC1HM-225ZM | E.CAPA. I.M | 2.2MF 20% 50V | EE |
| | C 117 | QETC1HM-225ZM | E.CAPA. I.M | 2.2MF 20% 50V | EE |
| | C 118 | EETC1HM-335ZE | E.CAPACITOR | | EE |
| | C 801 | QCGB1HK-102 | C CAPACITOR | 1000PF 10% 50V | |
| | C 802 | QCGB1HK-102 | C CAPACITOR | 1000PF 10% 50V | |
| | C 803 | QCS11HJ-220 | C CAPACITOR | 22PF 5% 50V | |
| | C 804 | QCS11HJ-220 | C CAPACITOR | 22PF 5% 50V | |
| | C 805 | QCS31HJ-390Z | C CAPACITOR | 39PF 5% 50V | |
| | C 806 | QCS31HJ-390Z | C CAPACITOR | 39PF 5% 50V | |
| | C 807 | QCS11HJ-220 | C CAPACITOR | 22PF 5% 50V | |
| | C 808 | QCS11HJ-220 | C CAPACITOR | 22PF 5% 50V | |
| | C 809 | QEK40JM-227 | E CAPACITOR | 220MF 20% 6.3V | |
| | C 810 | QER41AM-227N | E.CAPA. I.M | 220MF 20% 10V | |
| | C 811 | QEK40JM-227 | E CAPACITOR | 220MF 20% 6.3V | |
| | C 812 | QCGB1HK-102 | C CAPACITOR | 1000PF 10% 50V | |
| | C 814 | QCBB1HK-221Y | C CAPACITOR | 220PF 10% 50V | |
| | C 815 | QCBB1HK-221Y | C CAPACITOR | 220PF 10% 50V | |
| | C 816 | QFV71HJ-124ZM | TF CAPACITOR | .12MF 5% 50V | |
| | C 821 | QET41HM-226 | E CAPACITOR | 22MF 20% 50V | |
| | C 822 | QETN1HM-226Z | E CAPACITOR | 22MF 20% 10V | |
| | C 840 | QFLB1HJ-222 | M CAPACITOR | 2200PF 5% 50V | |
| | C 841 | QCGB1HK-102 | C CAPACITOR | 1000PF 10% 50V | |
| | C 842 | QCGB1HK-102 | C CAPACITOR | 1000PF 10% 50V | B,E,EN |
| | C 843 | QCGB1HK-102 | C CAPACITOR | 1000PF 10% 50V | |
| | C 844 | QCGB1HK-102 | C CAPACITOR | 1000PF 10% 50V | EE |
| | C 845 | QCGB1HK-102 | C CAPACITOR | 1000PF 10% 50V | EE |
| | C 900 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C 901 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C 902 | QCGB1HK-102 | C CAPACITOR | 1000PF 10% 50V | |
| | C 903 | QER50JM-476 | E.CAPA. I.M | 47MF 20% 6.3V | |
| | CN015 | EMV5163-011R | CONECTOR | | |
| | CN421 | EMV5163-009R | CONNECTOR | | EE |
| | CN705 | EMV7163-007 | CONNECTOR | | |
| | CN801 | QGF1201F3-20 | FFC/FPC CONNE | | |
| | CN802 | VMC0163-R16 | CONNECTOR | | |
| | CN803 | EMV7160-011 | CONNECTOR | | |
| | CN804 | EMV7123-012R | CONNECTOR | | |
| | C1051 | QFV41HJ-104ZM | TF CAPACITOR | .10MF 5% 50V | B,E,EN |
| | C1052 | QFLC1HJ-683ZM | M CAPACITOR | .068MF 5% 50V | B,E,EN |

BLOCK NO. 03

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C1053 | QCXB1CM-222Y | C CAPACITOR | 2200PF 20% 16V | |
| | C1054 | QCXB1CM-222Y | C CAPACITOR | 2200PF 20% 16V | |
| | C1055 | QFLC1HJ-393ZM | M CAPACITOR | .039MF 5% 50V | |
| | C1056 | QFLC1HJ-393ZM | M CAPACITOR | .039MF 5% 50V | |
| | D 100 | MA700 | ZENER DIODE | | EE |
| | D 101 | MA700 | ZENER DIODE | | EE |
| | D 110 | 1SS133 | SI DIODE | | EE |
| | D 111 | 1SS133 | SI DIODE | | EE |
| | D 801 | 1SS133-T2 | DIODE | | |
| | D 802 | 1SS119-02 | SI DIODE | | |
| | D 803 | 1SS119-02 | SI DIODE | | |
| | D 804 | 1SS119-02 | SI DIODE | | |
| | D 805 | 1SS133-T2 | DIODE | | |
| | D 806 | SLR-342VC-T | LED I.M | | |
| | D 820 | 1SS133-T2 | DIODE | | |
| | D 910 | SLR-342MCA47 | LED I.M | | |
| | D 911 | SLR-342MCA47 | LED I.M | | |
| | D 912 | SLR-342MCA47 | LED I.M | | |
| | D 913 | SLR-342MCA47 | LED I.M | | |
| | D 914 | SLR-342MCA47 | LED I.M | | |
| | D 915 | SLR-342MCA47 | LED I.M | | |
| | D 916 | SLR-342MCA47 | LED I.M | | |
| | D 917 | SLR-342MCA47 | LED I.M | | |
| | D 918 | SLR-342VC-T | LED I.M | | |
| | D 919 | 1SS133-T2 | DIODE | | |
| | D1041 | 1SS133-T2 | DIODE | | |
| | FL801 | QLF0040-001 | FL TUBE | | |
| | FW801 | VWSC06-093K3K | EF FLAT WIRE | | |
| | FW802 | VWSC06-093K3K | EF FLAT WIRE | | |
| | FW803 | EWR34D-10LS | FLAT WIRE | | |
| | FW851 | EWR34D-25LS | FLAT WIRE | | |
| | IC 6 | BU4066BC | IC | | EE |
| | IC 7 | BA15218 | IC | | EE |
| | IC801 | UPD780206GF-039 | | | |
| | IC802 | NJU3718L | IC | | |
| | IC900 | GP1U261X | IR DETECT UNIT | | |
| | J 850 | QNS0032-001 | JACK | HEAD PHONE | |
| | JS900 | QSW0538-001 | ROTARY ENCODER | | |
| | L 100 | QQR0522-001 | COIL | | EE |
| | L 801 | QQL29BJ-100Z | INDUCTOR | | |
| | L 802 | VQP0026-470Z | INDUCTOR | | |
| | L 803 | VQP0018-220 | INDUCTOR | | |
| | L 804 | VQP0026-470Z | INDUCTOR | | |
| | L 805 | VQP0026-470Z | INDUCTOR | | |
| | L 807 | VQZ0048-009 | INDUCTOR | | |
| | L 840 | VQZ0048-009 | INDUCTOR | HP GND | B,E,EN |
| | L 841 | VQP0018-470 | INDUCTOR | EMC | B,E,EN |
| | L 842 | VQP0018-470 | INDUCTOR | EMC | B,E,EN |
| | Q 100 | 2SC2785 | TRANSISTOR | | EE |
| | Q 101 | DTC144ESA-T | D.TR.I.M | | EE |
| | Q 102 | 2SC2785 | TRANSISTOR | | EE |
| | Q 801 | 2SC2668(O) | TRANSISTOR | | |
| | Q 802 | 2SC2668(O) | TRANSISTOR | | |
| | Q 803 | DTA114ES | D.TR.I.M | | |
| | Q 804 | DTC114ESA-T | D.TR.I.M | | |

BLOCK NO. 03

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | Q 805 | DTC114ESA-T | D.TR.I.M | | |
| | Q 806 | DTC114ESA-T | D.TR.I.M | | |
| | Q 807 | DTC114ESA-T | D.TR.I.M | | |
| | Q 808 | DTC114ESA-T | D.TR.I.M | | |
| | Q 809 | 2SC2785 | TRANSISTOR | | |
| | Q 910 | DTC114ESA-T | D.TR.I.M | | |
| | Q 912 | DTC114ESA-T | D.TR.I.M | | |
| | Q 914 | DTC114ESA-T | D.TR.I.M | | |
| | Q 916 | DTC114ESA-T | D.TR.I.M | | |
| | R 100 | QRD161J-822 | C RESISTOR | 8.2K 5% 1/4W | EE |
| | R 101 | QRD161J-563 | C RESISTOR | 56K 5% 1/4W | EE |
| | R 102 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | EE |
| | R 103 | QRD161J-563 | C RESISTOR | 56K 5% 1/4W | EE |
| | R 104 | QRD167J-682 | C RESISTOR | 6.8K 5% 1/4W | EE |
| | R 105 | QRD161J-184 | C RESISTOR | 180K 5% 1/4W | EE |
| | R 106 | QRD161J-224 | C RESISTOR | 220K 5% 1/4W | EE |
| | R 107 | QRD161J-513 | C RESISTOR | 51K 5% 1/4W | EE |
| | R 109 | QRD161J-224 | C RESISTOR | 220K 5% 1/4W | EE |
| | R 110 | QRD161J-224 | C RESISTOR | 220K 5% 1/4W | EE |
| | R 111 | QRD161J-223 | C RESISTOR | 22K 5% 1/4W | EE |
| | R 112 | QRD161J-123 | C RESISTOR | 12K 5% 1/4W | EE |
| | R 113 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | EE |
| | R 114 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | EE |
| | R 115 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | EE |
| | R 116 | QRD161J-333 | C RESISTOR | 33K 5% 1/4W | EE |
| | R 117 | QRD161J-473 | C RESISTOR | 47K 5% 1/4W | EE |
| | R 118 | QRD161J-473 | C RESISTOR | 47K 5% 1/4W | EE |
| | R 801 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 802 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 803 | QRD161J-472 | C RESISTOR | 4.7K 5% 1/4W | |
| | R 804 | QRD161J-472 | C RESISTOR | 4.7K 5% 1/4W | |
| | R 805 | QRD161J-105 | C RESISTOR | 1.0M 5% 1/4W | |
| | R 806 | QRD161J-224 | C RESISTOR | 220K 5% 1/4W | |
| | R 815 | QRD161J-331 | C RESISTOR | 330 5% 1/4W | |
| | R 816 | QRD167J-121 | C RESISTOR | 120 5% 1/4W | |
| | R 817 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 818 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 819 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 820 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 821 | QRD161J-472 | C RESISTOR | 4.7K 5% 1/4W | |
| | R 822 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 823 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 824 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 825 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 826 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 827 | QRD161J-563 | C RESISTOR | 56K 5% 1/4W | |
| | R 828 | QRD161J-154 | C RESISTOR | 150K 5% 1/4W | |
| | R 847 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 848 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 856 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 857 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 860 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R 861 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R 862 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 863 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |

BLOCK NO. 03

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 864 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 865 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 866 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R 867 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R 868 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R 872 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 874 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 875 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 877 | QRD161J-563 | C RESISTOR | 56K 5% 1/4W | |
| | R 878 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 879 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 880 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 881 | QRD161J-104 | C RESISTOR | 100K 5% 1/4W | |
| | R 882 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 883 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 884 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 885 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 886 | QRD161J-224 | C RESISTOR | 220K 5% 1/4W | |
| | R 887 | QRD161J-563 | C RESISTOR | 56K 5% 1/4W | |
| | R 900 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 901 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 910 | QRD161J-201 | C.RES. I.M | 200 5% 1/4W | |
| | R 911 | QRD161J-201 | C.RES. I.M | 200 5% 1/4W | |
| | R 912 | QRD161J-201 | C.RES. I.M | 200 5% 1/4W | |
| | R 913 | QRD161J-201 | C.RES. I.M | 200 5% 1/4W | |
| | R 914 | QRD161J-201 | C.RES. I.M | 200 5% 1/4W | |
| | R 915 | QRD161J-201 | C.RES. I.M | 200 5% 1/4W | |
| | R 916 | QRD161J-201 | C.RES. I.M | 200 5% 1/4W | |
| | R 917 | QRD161J-201 | C.RES. I.M | 200 5% 1/4W | |
| | R 951 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 952 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 953 | QRD161J-122 | C RESISTOR | 1.2K 5% 1/4W | |
| | R 954 | QRD161J-152 | C RESISTOR | 1.5K 5% 1/4W | |
| | R 955 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R 956 | QRD161J-272 | C RESISTOR | 2.7K 5% 1/4W | |
| | R 957 | QRD161J-392 | C RESISTOR | 3.9K 5% 1/4W | |
| | R 958 | QRD167J-562 | C RESISTOR | 5.6K 5% 1/4W | |
| | R 959 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 960 | QRE141J-183Y | C RESISTOR | 18K 5% 1/4W | |
| | R 961 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 962 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 963 | QRD167J-562 | C RESISTOR | 5.6K 5% 1/4W | |
| | R 964 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 965 | QRD161J-122 | C RESISTOR | 1.2K 5% 1/4W | |
| | R 966 | QRD161J-152 | C RESISTOR | 1.5K 5% 1/4W | |
| | R 967 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R 968 | QRD161J-272 | C RESISTOR | 2.7K 5% 1/4W | |
| | R 969 | QRD161J-392 | C RESISTOR | 3.9K 5% 1/4W | |
| | R 970 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 971 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 972 | QRD161J-122 | C RESISTOR | 1.2K 5% 1/4W | |
| | R 973 | QRD161J-152 | C RESISTOR | 1.5K 5% 1/4W | |
| | R 974 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R 975 | QRD161J-272 | C RESISTOR | 2.7K 5% 1/4W | |
| | R 976 | QRD161J-392 | C RESISTOR | 3.9K 5% 1/4W | |

BLOCK NO. 03

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 977 | QRD167J-562 | C RESISTOR | 5.6K 5% 1/4W | |
| | R 978 | QRD161J-103 | C RESISTOR | 10K 5% 1/4W | |
| | R 979 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 980 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/4W | |
| | R 981 | QRD161J-122 | C RESISTOR | 1.2K 5% 1/4W | |
| | R 982 | QRD161J-152 | C RESISTOR | 1.5K 5% 1/4W | |
| | R 983 | QRD161J-222 | C RESISTOR | 2.2K 5% 1/4W | |
| | R 984 | QRD161J-272 | C RESISTOR | 2.7K 5% 1/4W | |
| | R 985 | QRD161J-392 | C RESISTOR | 3.9K 5% 1/4W | |
| | R 990 | QRD161J-224 | C RESISTOR | 220K 5% 1/4W | |
| | R 991 | QRD161J-823 | C RESISTOR | 82K 5% 1/4W | |
| | R 992 | QRD161J-683 | C RESISTOR | 68K 5% 1/4W | |
| | R 993 | QRE141J-183Y | C RESISTOR | 18K 5% 1/4W | |
| | RA801 | QRB169J-104 | R.NETWORK | 100K 5% 1/6W | |
| | RA802 | QRB169J-104 | R.NETWORK | 100K 5% 1/6W | |
| | RY 1 | ESK7D24-212J4 | RELAY | | |
| ⚠ | R1051 | QRD14CJ-4R7SX | C RESISTOR | 4.7 5% 1/4W | |
| ⚠ | R1052 | QRD14CJ-4R7SX | C RESISTOR | 4.7 5% 1/4W | |
| | S 951 | QSW0674-001Z | TACT SW | | |
| | S 952 | QSW0674-001Z | TACT SW | | |
| | S 953 | QSW0674-001Z | TACT SW | | |
| | S 954 | QSW0674-001Z | TACT SW | | |
| | S 955 | QSW0674-001Z | TACT SW | | |
| | S 956 | QSW0674-001Z | TACT SW | | |
| | S 957 | QSW0674-001Z | TACT SW | | |
| | S 958 | QSW0674-001Z | TACT SW | | |
| | S 959 | QSW0674-001Z | TACT SW | | |
| | S 960 | QSW0674-001Z | TACT SW | | |
| | S 961 | QSW0674-001Z | TACT SW | | |
| | S 962 | QSW0674-001Z | TACT SW | | |
| | S 963 | QSW0674-001Z | TACT SW | | |
| | S 964 | QSW0674-001Z | TACT SW | | |
| | S 965 | QSW0674-001Z | TACT SW | | |
| | S 966 | QSW0674-001Z | TACT SW | | |
| | S 967 | QSW0674-001Z | TACT SW | | |
| | S 968 | QSW0674-001Z | TACT SW | | |
| | S 969 | QSW0674-001Z | TACT SW | | |
| | S 970 | QSW0674-001Z | TACT SW | | |
| | S 971 | QSW0674-001Z | TACT SW | | |
| | S 972 | QSW0674-001Z | TACT SW | | |
| | S 973 | QSW0674-001Z | TACT SW | | |
| | S 974 | QSW0674-001Z | TACT SW | | |
| | S 975 | QSW0674-001Z | TACT SW | | |
| | S 976 | QSW0674-001Z | TACT SW | | |
| | S 977 | QSW0674-001Z | TACT SW | | |
| | S 978 | QSW0674-001Z | TACT SW | | |
| | S 979 | QSW0674-001Z | TACT SW | | |
| | S 980 | QSW0674-001Z | TACT SW | | |
| | S 981 | QSW0674-001Z | TACT SW | | |
| | S 982 | QSW0674-001Z | TACT SW | | |
| | S 983 | QSW0674-001Z | TACT SW | | |
| | S 984 | QSW0674-001Z | TACT SW | | |
| | S 985 | QSW0674-001Z | TACT SW | | |
| | SP801 | VYH7653-001 | IC HOLDER | | |
| | VR100 | QVPA601-103A | V.RES. I.M | | EE |
| | X 801 | QAX0410-001Z | CERA LOCK | | |
| | X 802 | QAX0401-001 | CRYSTAL | | |

## ■ CD Servo & Mechanism Control Board

BLOCK NO. 04

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 251 | NCS21HJ-100AY | C CAPACITOR | X1 | |
| | C 252 | NCS21HJ-100AY | C CAPACITOR | X2 | |
| | C 253 | NCB21HK-104 | C CAPACITOR | VDD-VSS | |
| | C 254 | QERF1AM-476Z | E CAPACITOR | VDD-VSS | |
| | C 281 | NCB21HK-223AY | C CAPACITOR | /RST CD LSI | |
| | C 291 | QERF1AM-476Z | E CAPACITOR | +5V-D.GND | |
| | C 601 | NCB21HK-102AY | C CAPACITOR | PU E | |
| | C 602 | NCB21HK-102AY | C CAPACITOR | PU F | |
| | C 603 | NCB21HK-223AY | C CAPACITOR | TBAL | |
| | C 604 | NCB21HK-223AY | C CAPACITOR | FBAL | |
| | C 605 | NCS21HJ-271AY | C CAPACITOR | FE | |
| | C 606 | NCS21HJ-470AY | C.CAPA. C.M | TE | |
| | C 607 | NCB21HK-223AY | C CAPACITOR | TEBPF | |
| | C 608 | NCB21HK-223AY | C CAPACITOR | TEBPF | |
| | C 609 | NCB21HK-102AY | C CAPACITOR | TE | |
| | C 610 | NCB21HK-104 | C CAPACITOR | ENV | |
| | C 611 | NCB21HK-104 | C CAPACITOR | RF | |
| | C 612 | QER41HM-105 | E CAPACITOR | CAGC | |
| | C 613 | NCS21HJ-101AY | C CAPACITOR | CENV | |
| | C 614 | NCB21HK-273AY | C CAPACITOR | CEA | |
| | C 615 | NCB21HK-472AY | C CAPACITOR | CSBDO | |
| | C 616 | NCB21HK-103AY | C CAPACITOR | CSBRT | |
| | C 617 | NCS21HJ-331AY | C CAPACITOR | OFT | |
| | C 621 | NCB21HK-104 | C CAPACITOR | VREF-D.GND | |
| | C 623 | NCF21CZ-105AY | C CAPACITOR | VCC-D.GND | |
| | C 624 | QER41AM-107 | E CAPACITOR | VCC-D.GND | |
| | C 631 | QER41CM-106 | E CAPACITOR | APC +5V-BASE | |
| | C 632 | NCF21CZ-105AY | C CAPACITOR | APC +5V-D.GND | |
| | C 633 | NCB21HK-223AY | C CAPACITOR | PU K-VREF | |
| | C 651 | NCS21HJ-120AY | C CAPACITOR | X1 | |
| | C 652 | NCS21HJ-150AY | C CAPACITOR | X2 | |
| | C 653 | NCB21HK-104 | C CAPACITOR | VDD-VSS | |
| | C 654 | NCB21HK-223AY | C CAPACITOR | AVDD1-AVSS1 | |
| | C 655 | QER41AM-227N | E CAPACITOR | AVDD1-AVSS1 | |
| | C 656 | NCB21HK-104 | C CAPACITOR | D.GND-A.GND | |
| | C 657 | NCB21HK-222AY | C CAPACITOR | OUTL | |
| | C 658 | NCB21HK-222AY | C CAPACITOR | OUTR | |
| | C 661 | NCB21HK-104 | C CAPACITOR | AVDD2-AVSS2 | |
| | C 662 | QER41AM-107 | E CAPACITOR | AVDD2-AVSS2 | |
| | C 663 | NCB21HK-104 | C CAPACITOR | PLLF | |
| | C 664 | NCB21HK-223AY | C CAPACITOR | IREF | |
| | C 665 | NCB21HK-223AY | C CAPACITOR | DSLF | |
| | C 666 | NCS21HJ-471AY | C CAPACITOR | ARF | |
| | C 667 | NCF21CZ-105AY | C CAPACITOR | VCOF | |
| | C 668 | NCB21HK-473AY | C CAPACITOR | VCOF | |
| | C 671 | NCB21HK-104 | C CAPACITOR | DVDD1-DVSS1 | |
| | C 672 | QER41AM-107 | E CAPACITOR | DVDD1-DVSS1 | |
| | C 801 | NCB21HK-103AY | C CAPACITOR | FOD | |
| | C 802 | NCB21HK-103AY | C CAPACITOR | TRD | |
| | C 811 | NCS21HJ-101AY | C CAPACITOR | FOCUS | |
| | C 812 | NCS21HJ-101AY | C CAPACITOR | SPINDLE | |
| | C 813 | NCS21HJ-101AY | C CAPACITOR | FEED | |
| | C 814 | NCS21HJ-101AY | C CAPACITOR | TRACKING | |
| | C 821 | NCF21CZ-105AY | C CAPACITOR | VCC-M.GND | |
| | C 822 | QER41AM-227N | E CAPACITOR | VCC-M.GND | |

BLOCK NO. 04

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 851 | QER41CM-106 | E CAPACITOR | LM VCC-M.GND | |
| | C 852 | QER41CM-106 | E CAPACITOR | RM VCC-M.GND | |
| | C 855 | NCB21HK-104 | C CAPACITOR | VCC-M.GND | |
| | C 859 | NCF21CZ-105AY | C CAPACITOR | L MOTOR | |
| | C 860 | NCF21CZ-105AY | C CAPACITOR | R MOTOR | |
| | CN151 | EMV7171-115R | 15FFC CONNECTOR | VIDEO CD | |
| | CN152 | EMV5109-012B | 12P CN RIG | VIDEO CD | |
| | CN601 | EMV7171-115R | 15FFC CONNECTOR | TRAVERSE | |
| | CN651 | EMV7171-119R | CONNECTOR | MAIN | |
| | CN652 | EMV7171-105R | CONNECTOR | OSD | |
| | CN653 | EMV7171-113R | CONNECTOR | CD TEXT | |
| | CN801 | VMC0075-006 | 6P PLUG ASSY | TRAVERSE | |
| | CN851 | VMC0107-R03 | SOCKET | DISC DETECTION | |
| | CN854 | QGB2016K1-07 | CONNECTOR | TRAY SWITCH | |
| | CN855 | QGG2002M4-10 | CONNECTOR | CAM SWITCH | |
| | IC251 | UPD78055GC-A28 | IC(MCU) | | |
| | IC601 | AN8806SB | IC C.M | RF AMP | |
| | IC651 | MN35510 | IC | DSP & DAC | |
| | IC801 | BA6897FP-W | IC | PU DRIVE | |
| | IC851 | TA8409S | IC | L MOTOR DRIVE | |
| | IC852 | TA8409S | IC | R MOTOR DRIVE | |
| | L 851 | VQP0033-100Z | INDUCTOR | VS DE-COUPLE | |
| | L 853 | VQP0033-100Z | INDUCTOR | L MOTOR | |
| | L 854 | VQP0033-100Z | INDUCTOR | R MOTOR | |
| | Q 291 | 2SB1357(E,F) | TR.I.M | /P.ON | |
| | Q 631 | 2SA1037AKT146 | CHIP TRANSISTOR | APC | |
| | Q 842 | DTA144ES | TR I/M | /DISC | |
| | R 251 | NRSA02J-102NY | MG RESISTOR | DEMPHO | |
| | R 252 | NRSA02J-102NY | MG RESISTOR | /OSOFF | |
| | R 253 | NRSA02J-102NY | MG RESISTOR | MCS | |
| | R 254 | NRSA02J-102NY | MG RESISTOR | MRDY | |
| | R 255 | NRSA02J-102NY | MG RESISTOR | KCMND | |
| | R 256 | NRSA02J-102NY | MG RESISTOR | MSTAT | |
| | R 257 | NRSA02J-102NY | MG RESISTOR | KCLK | |
| | R 258 | NRSA02J-102NY | MG RESISTOR | MREQ | |
| | R 259 | NRSA02J-101NY | MG RESISTOR | VCDEMP | |
| | R 260 | NRSA02J-102NY | MG RESISTOR | SRDATA | |
| | R 261 | NRSA02J-102NY | MG RESISTOR | SRCLK | |
| | R 262 | NRSA02J-102NY | MG RESISTOR | MNT0 | |
| | R 263 | NRSA02J-102NY | MG RESISTOR | MNT1 | |
| | R 264 | NRSA02J-102NY | MG RESISTOR | MNT2 | |
| | R 265 | NRSA02J-223NY | MG RESISTOR | /VCDRST PULL-UP | |
| | R 266 | NRSA02J-102NY | MG RESISTOR | CHECK0 | |
| | R 267 | NRSA02J-102NY | MG RESISTOR | CHECK1 | |
| | R 268 | NRSA02J-102NY | MG RESISTOR | CHECK2 | |
| | R 269 | NRSA02J-102NY | MG RESISTOR | CHECK3 | |
| | R 270 | NRSA02J-223NY | MG RESISTOR | CHECK0 PULL-UP | |
| | R 271 | NRSA02J-223NY | MG RESISTOR | CHECK1 PULL-UP | |
| | R 272 | NRSA02J-223NY | MG RESISTOR | CHECK2 PULL-UP | |
| | R 273 | NRSA02J-223NY | MG RESISTOR | CHECK3 PULL-UP | |
| | R 274 | NRSA02J-102NY | MG RESISTOR | HREQ | |
| | R 275 | NRSA02J-102NY | MG RESISTOR | HRDY | |
| | R 276 | NRSA02J-102NY | MG RESISTOR | DABCK | |
| | R 277 | NRSA02J-102NY | MG RESISTOR | DALRCK | |
| | R 278 | NRSA02J-102NY | MG RESISTOR | DADATA | |

BLOCK NO. 04

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 279 | NRSA02J-102NY | MG RESISTOR | IOSEL | |
| | R 281 | NRSA02J-102NY | MG RESISTOR | /RST CD LSI | |
| | R 282 | NRSA02J-102NY | MG RESISTOR | /VCDRST | |
| | R 283 | NRSA02J-102NY | MG RESISTOR | /RST OTHER | |
| | R 284 | NRSA02J-102NY | MG RESISTOR | /RESET MICOM | |
| | R 285 | NRSA02J-102NY | MG RESISTOR | OSCLK | |
| | R 286 | NRSA02J-102NY | MG RESISTOR | /OSCS | |
| | R 287 | NRSA02J-102NY | MG RESISTOR | OSDATA | |
| | R 288 | NRSA02J-102NY | MG RESISTOR | SHIFT | |
| | R 289 | NRSA02J-223NY | MG RESISTOR | SHIFT PULL-UP | |
| | R 291 | NRSA02J-122NY | MG RESISTOR | /P.ON | |
| | R 292 | NRSA02J-103NY | MG RESISTOR | BASE-EMITTER | |
| | R 293 | NRSA02J-102NY | MG RESISTOR | P.ON | |
| | R 601 | NRSA02J-274NY | MG RESISTOR | TBAL | |
| | R 602 | NRSA02J-154NY | RES. C.M | FBAL | |
| | R 603 | NRSA02J-273NY | MG RESISTOR | FE | |
| | R 604 | NRSA02J-114NYM | MG RESISTOR | TE | |
| | R 605 | NRSA02J-104NY | MG RESISTOR | TEBPF | |
| | R 606 | NRSA02J-473NY | MG RESISTOR | TEBPF | |
| | R 607 | NRSA02J-822NY | MG RESISTOR | TE | |
| | R 611 | NRSA02J-123NY | MG RESISTOR | RF | |
| | R 612 | NRSA02J-125NY | MG RESISTOR | CSBRT | |
| | R 631 | NRSA02J-2R2NYM | RES. C.M | +5V DE-COUPLE | |
| | R 632 | NRSA02J-100NY | MG RESISTOR | APC EMITTER | |
| | R 634 | NRSA02J-120NY | MG RESISTOR | APC COLECTOR | |
| | R 635 | NRSA02J-121NY | MG RESISTOR | PU K | |
| | R 636 | NRSA02J-910NY | RES. C.M | PU LD | |
| | R 651 | NRSA02J-271NY | MG RESISTOR | X2 | |
| | R 652 | NRSA02J-220NY | MG RESISTOR | AVDD1 DE-COUPLE | |
| | R 657 | NRSA02J-102NY | MG RESISTOR | OUTL | |
| | R 658 | NRSA02J-102NY | MG RESISTOR | OUTR | |
| | R 661 | NRSA02J-220NY | MG RESISTOR | AVDD2 DE-COUPLE | |
| | R 662 | NRSA02J-471NY | RES. C.M | PLLF | |
| | R 663 | NRSA02J-124NY | MG RESISTOR | IREF | |
| | R 665 | NRSA02J-683NY | MG RESISTOR | ARF | |
| | R 666 | NRSA02J-155NY | MG RESISTOR | 1.5M 5% 1/10W | |
| | R 667 | NRSA02J-562NY | MG RESISTOR | VCOF | |
| | R 671 | NRSA02J-102NY | MG RESISTOR | CDBCK | |
| | R 672 | NRSA02J-102NY | MG RESISTOR | CDLRCK | |
| | R 673 | NRSA02J-102NY | MG RESISTOR | CDDATA | |
| | R 674 | NRSA02J-101NY | MG RESISTOR | TX | |
| | R 675 | NRSA02J-102NY | MG RESISTOR | MCLK | |
| | R 676 | NRSA02J-102NY | MG RESISTOR | MDATA | |
| | R 677 | NRSA02J-102NY | MG RESISTOR | MLD | |
| | R 678 | NRSA02J-102NY | MG RESISTOR | BLKCK | |
| | R 679 | NRSA02J-102NY | MG RESISTOR | SQCK | |
| | R 680 | NRSA02J-102NY | MG RESISTOR | SUBQ | |
| | R 681 | NRSA02J-102NY | MG RESISTOR | DMUTE | |
| | R 682 | NRSA02J-102NY | MG RESISTOR | STAT | |
| | R 683 | NRSA02J-102NY | MG RESISTOR | LDON | |
| | R 684 | NRSA02J-271NY | MG RESISTOR | XCLK | |
| | R 685 | NRSA02J-102NY | MG RESISTOR | SUBC | |
| | R 686 | NRSA02J-101NY | MG RESISTOR | SBCK | |
| | R 687 | NRSA02J-102NY | MG RESISTOR | /CLDCK | |
| | R 688 | NRSA02J-101NY | MG RESISTOR | IPFLAG | |

BLOCK NO. 04

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 689 | NRSA02J-102NY | MG RESISTOR | DEMPH | |
| | R 690 | NRSA02J-101NY | MG RESISTOR | DADATA | |
| | R 691 | NRSA02J-101NY | MG RESISTOR | DALRCK | |
| | R 692 | NRSA02J-101NY | MG RESISTOR | DABCK | |
| | R 693 | NRSA02J-471NY | RES. C.M | 470 5% 1/10W | |
| | R 694 | NRSA02J-102NY | MG RESISTOR | XCLK | |
| | R 801 | NRSA02J-182NY | MG RESISTOR | FOD | |
| | R 802 | NRSA02J-472NY | MG RESISTOR | FOD | |
| | R 803 | NRSA02J-222NY | MG RESISTOR | TRD | |
| | R 804 | NRSA02J-683NY | MG RESISTOR | KICK | |
| | R 805 | NRSA02J-822NY | MG RESISTOR | TVD | |
| | R 806 | NRSA02J-223NY | MG RESISTOR | TRV | |
| | R 807 | NRSA02J-222NY | MG RESISTOR | ECS | |
| | R 808 | NRSA02J-223NY | MG RESISTOR | ECM | |
| | R 811 | NRSA02J-473NY | MG RESISTOR | /DRMUTE | |
| | R 831 | NRSA02J-151NY | MG RESISTOR | /REST | |
| | R 832 | NRSA02J-103NY | MG RESISTOR | /REST PULL-UP | |
| | R 842 | NRSA02J-473NY | MG RESISTOR | /DISC | |
| | R 851 | NRSA02J-102NY | MG RESISTOR | LMUP | |
| | R 852 | NRSA02J-102NY | MG RESISTOR | RMUP | |
| | R 853 | NRSA02J-102NY | MG RESISTOR | LMDOWN | |
| | R 854 | NRSA02J-102NY | MG RESISTOR | RMDOWN | |
| | R 855 | NRSA02J-102NY | MG RESISTOR | LM VCC-VREF | |
| | R 856 | NRSA02J-102NY | MG RESISTOR | RM VCC-VREF | |
| | R 859 | NRSA02J-181NY | MG RESISTOR | VCC DE-COUPLE | |
| | R 861 | NRSA02J-102NY | MG RESISTOR | 1SSW | |
| | R 862 | NRSA02J-102NY | MG RESISTOR | 2SSW | |
| | R 863 | NRSA02J-102NY | MG RESISTOR | 3SSW | |
| | R 864 | NRSA02J-102NY | MG RESISTOR | 1MSW | |
| | R 865 | NRSA02J-102NY | MG RESISTOR | 2MSW | |
| | R 866 | NRSA02J-102NY | MG RESISTOR | 3MSW | |
| | R 871 | NRSA02J-223NY | MG RESISTOR | 1SSW PULL-UP | |
| | R 872 | NRSA02J-223NY | MG RESISTOR | 2SSW PULL-UP | |
| | R 873 | NRSA02J-223NY | MG RESISTOR | 3SSW PULL-UP | |
| | R 874 | NRSA02J-223NY | MG RESISTOR | 1MSW PULL-UP | |
| | R 875 | NRSA02J-223NY | MG RESISTOR | 2MSW PULL-UP | |
| | R 876 | NRSA02J-223NY | MG RESISTOR | 3MSW PULL-UP | |
| | R 880 | NRSA02J-102NY | MG RESISTOR | CAM0 | |
| | R 881 | NRSA02J-102NY | MG RESISTOR | CAM1 | |
| | R 882 | NRSA02J-102NY | MG RESISTOR | CAM2 | |
| | R 883 | NRSA02J-102NY | MG RESISTOR | CAM3 | |
| | R 884 | NRSA02J-102NY | MG RESISTOR | CAM4 | |
| | R 885 | NRSA02J-102NY | MG RESISTOR | CAM5 | |
| | R 886 | NRSA02J-102NY | MG RESISTOR | CAM6 | |
| | R 887 | NRSA02J-102NY | MG RESISTOR | CAM7 | |
| | R 890 | NRSA02J-223NY | MG RESISTOR | CAM0 PULL-UP | |
| | R 891 | NRSA02J-223NY | MG RESISTOR | CAM1 PULL-UP | |
| | R 892 | NRSA02J-223NY | MG RESISTOR | CAM2 PULL-UP | |
| | R 893 | NRSA02J-223NY | MG RESISTOR | CAM3 PULL-UP | |
| | R 894 | NRSA02J-223NY | MG RESISTOR | CAM4 PULL-UP | |
| | R 895 | NRSA02J-223NY | MG RESISTOR | CAM5 PULL-UP | |
| | R 896 | NRSA02J-223NY | MG RESISTOR | CAM6 PULL-UP | |
| | R 897 | NRSA02J-223NY | MG RESISTOR | CAM7 PULL-UP | |
| | W 601 | EWF102-047 | TER.WIRE | D.GND | |
| | X 251 | QAX0360-001Z | CRYSTAL | FOR IC251 | |
| | X 651 | VCX5016-934V | CRYSTAL | FOR IC651 | |

## ■ CD Tray Select Switch Board

BLOCK NO. 05

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | CN804 | QGB2016J1-07 | CONNECTOR | | |
| | SW | QSW0507-001 | SWITCH | SW1-6 | |

## ■ Head Amplifier & Mechanism Control Board

BLOCK NO. 06

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 101 | NCS21HJ-561AY | C.CAPA. C.M | 560PF 5% 50V | |
| | C 102 | NCS21HJ-331AY | C CAPACITOR | 330PF 5% 50V | |
| | C 103 | NCS21HJ-561AY | C.CAPA. C.M | 560PF 5% 50V | |
| | C 104 | NCS21HJ-221AY | C CAPACITOR | 220PF 5% 50V | |
| | C 105 | QEK40JM-227 | E CAPACITOR | 220MF 20% 6.3V | |
| | C 106 | NCB21HK-333AY | C CAPACITOR | .033MF 10% 50V | |
| | C 107 | QEK41EM-475 | E CAPACITOR | 4.7MF 20% 25V | |
| | C 108 | NCB21HK-393AY | C CAPACITOR | .039MF 10% 50V | |
| | C 109 | NCB21HK-563AY | C CAPACITOR | .056MF 10% 50V | |
| | C 110 | NCS21HJ-221AY | C CAPACITOR | 220PF 5% 50V | |
| | C 111 | QEK41HM-104 | E CAPACITOR | .10MF 20% 50V | |
| | C 112 | QEK41CM-106 | E CAPACITOR | 10MF 20% 16V | |
| | C 113 | NCB21HK-332AY | C CAPACITOR | 3300PF 10% 50V | |
| | C 114 | QEK41EM-475 | E CAPACITOR | 4.7MF 20% 25V | |
| | C 115 | NCB21HK-153AY | C CAPACITOR | .015MF 10% 50V | |
| | C 116 | NCB21HK-822AY | C CAPACITOR | 8200PF 10% 50V | |
| | C 117 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 50V | |
| | C 118 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| | C 119 | NCB21HK-563AY | C CAPACITOR | .056MF 10% 50V | |
| | C 120 | NCS21HJ-330AY | C CAPACITOR | 33PF 5% 50V | |
| | C 201 | NCS21HJ-561AY | C.CAPA. C.M | 560PF 5% 50V | |
| | C 202 | NCS21HJ-331AY | C CAPACITOR | 330PF 5% 50V | |
| | C 203 | NCS21HJ-561AY | C.CAPA. C.M | 560PF 5% 50V | |
| | C 204 | NCS21HJ-221AY | C CAPACITOR | 220PF 5% 50V | |
| | C 205 | QEK40JM-227 | E CAPACITOR | 220MF 20% 6.3V | |
| | C 206 | NCB21HK-333AY | C CAPACITOR | .033MF 10% 50V | |
| | C 207 | QEK41EM-475 | E CAPACITOR | 4.7MF 20% 25V | |
| | C 208 | NCB21HK-393AY | C CAPACITOR | .039MF 10% 50V | |
| | C 209 | NCB21HK-563AY | C CAPACITOR | .056MF 10% 50V | |
| | C 210 | NCS21HJ-221AY | C CAPACITOR | 220PF 5% 50V | |
| | C 211 | QEK41HM-104 | E CAPACITOR | .10MF 20% 50V | |
| | C 212 | QEK41CM-106 | E CAPACITOR | 10MF 20% 16V | |
| | C 213 | NCB21HK-332AY | C CAPACITOR | 3300PF 10% 50V | |
| | C 214 | QEK41EM-475 | E CAPACITOR | 4.7MF 20% 25V | |
| | C 215 | NCB21HK-153AY | C CAPACITOR | .015MF 10% 50V | |
| | C 216 | NCB21HK-822AY | C CAPACITOR | 8200PF 10% 50V | |
| | C 217 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 50V | |
| | C 218 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| | C 219 | NCB21HK-563AY | C CAPACITOR | .056MF 10% 50V | |
| | C 220 | NCS21HJ-330AY | C CAPACITOR | 33PF 5% 50V | |
| | C 301 | QEK41CM-106 | E CAPACITOR | 10MF 20% 16V | |
| | C 302 | QEK41CM-476 | E CAPACITOR | 47MF 20% 16V | |
| | C 303 | QEK41CM-226 | E CAPACITOR | 22MF 20% 16V | |
| | C 304 | QEK41EM-475 | E CAPACITOR | 4.7MF 20% 25V | |
| | C 305 | NCB21HK-393AY | C CAPACITOR | .039MF 10% 50V | |
| | C 306 | QEK40JM-227 | E CAPACITOR | 220MF 20% 6.3V | |
| | C 308 | NCB21HK-562AY | C CAPACITOR | 5600PF 10% 50V | |
| | C 309 | NCB21HK-562AY | C CAPACITOR | 5600PF 10% 50V | |
| | C 310 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 50V | |
| | C 311 | NCB21HK-682AY | C CAPACITOR | 6800PF 10% 50V | |
| | C 313 | QEKF1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | C 314 | QCZ0205-155 | ML C CAP I/M | 1.5MF | |
| | C 315 | QCZ0205-155 | ML C CAP I/M | 1.5MF | |
| | C 316 | QFG32AJ-103ZN | PP CAPACITOR | .010MF 5% 100V | |
| | C 318 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |

BLOCK NO. 06

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 319 | QFG32AJ-821ZN | TF CAPACITOR | 820PF 5% 100V | |
| | C 321 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| | C 322 | QFG32AJ-152ZN | M CAPACITOR | 1500PF 5% 100V | |
| | C 327 | QEK41CM-476 | E CAPACITOR | 47MF 20% 16V | |
| | C 328 | NCS21HJ-151X | C CAPACITOR | 150PF 5% 50V | |
| | C 329 | NCS21HJ-151X | C CAPACITOR | 150PF 5% 50V | |
| | C 330 | NCS21HJ-151X | C CAPACITOR | 150PF 5% 50V | |
| | C 332 | NCS21HJ-151X | C CAPACITOR | 150PF 5% 50V | |
| | C 335 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| | C 336 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| | C 337 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| | C 338 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| | C 339 | QEK41CM-476 | E CAPACITOR | 47MF 20% 16V | |
| | C 340 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| | C 341 | QEKF1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | C 342 | QEK41EM-475 | E CAPACITOR | 4.7MF 20% 25V | |
| | C 343 | QET41CM-106 | E CAPACITOR | 10MF 20% 16V | |
| | C 344 | NCB21HK-472AY | C CAPACITOR | 4700PF 10% 50V | |
| | C 345 | NCS21HJ-331AY | C CAPACITOR | 330PF 5% 50V | |
| | CN301 | VMC0163-R06 | CONNECTOR | | |
| | CN302 | VMC0163-R06 | CONNECTOR | | |
| | CN303 | QGB2011M1-10 | PWB CONECTOR | | |
| | CN304 | QGB2011M1-10 | PWB CONECTOR | | |
| | CN305 | VMC0163-R10 | CONNECTOR | | |
| | CN306 | VMC0163-R11 | CONNECTOR | | |
| | D 301 | MA704A | S.K.DIODE | | |
| | D 302 | HSM2838C | DIODE | | |
| | D 307 | HZM5.1NB2-X | CHIP Z DIODE CM | | |
| | D 308 | HZM5.1NB2-X | CHIP Z DIODE CM | | |
| | D 309 | MA704A | S.K.DIODE | | |
| | IC301 | BA3126N | IC | | |
| | IC302 | AN7345K | IC | | |
| | IC303 | BU4094BCF-X | IC | | |
| | IC304 | BU4094BCF-X | IC | | |
| | L 301 | QQR0620-001 | OSC COIL(BIAS) | | |
| | L 303 | VQP0033-100Z | INDUCTOR | | |
| | Q 101 | DTC114TKT146 | TRANSISTOR | | |
| | Q 102 | DTC144TKA-X | TRANSISTOR | | |
| | Q 103 | DTC144EKA-X | TRANSISTOR | | |
| | Q 104 | DTC114TKT146 | TRANSISTOR | | |
| | Q 105 | 2SC2001(L,K) | TRANSISTOR | | |
| | Q 201 | DTC114TKT146 | TRANSISTOR | | |
| | Q 202 | DTC144TKA-X | TRANSISTOR | | |
| | Q 203 | DTC144EKA-X | TRANSISTOR | | |
| | Q 204 | DTC114TKT146 | TRANSISTOR | | |
| | Q 205 | 2SC2001(L,K) | TRANSISTOR | | |
| | Q 301 | DTC144TKA-X | TRANSISTOR | | |
| | Q 302 | 2SC2001(L,K) | TR I/M | | |
| | Q 303 | 2SC2001(L,K) | TR I/M | | |
| | Q 304 | 2SC2001(L,K) | TRANSISTOR | | |
| | Q 305 | 2SC2001(L,K) | TRANSISTOR | | |
| | Q 306 | 2SC2412K/RS/-X | CHIP TR.C.M | | |
| | Q 307 | 2SC2412K/RS/-X | CHIP TR.C.M | | |
| | Q 308 | 2SC2412K/RS/-X | CHIP TR.C.M | | |
| | Q 309 | 2SC2412K/RS/-X | CHIP TR.C.M | | |

BLOCK NO. 06

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | Q 312 | 2SB562(C) | TRANSISTOR | | |
| | Q 313 | 2SC2412K/RS/-X | CHIP TR.C.M | | |
| | Q 314 | 2SB562(C) | TRANSISTOR | | |
| | Q 315 | 2SC2412K/RS/-X | CHIP TR.C.M | | |
| | Q 316 | 2SA952(L,K) | TRANSISTOR | | |
| | Q 317 | DTC124EK | TRANSISTOR | | |
| | Q 318 | DTA144EKA-X | TRANSISTOR | | |
| | Q 319 | DTC144EKA-X | TRANSISTOR | | |
| | Q 320 | DTC144EKA-X | TRANSISTOR | | |
| | Q 321 | DTC144EKA-X | TRANSISTOR | | |
| | Q 322 | DTC144EKA-X | TRANSISTOR | | |
| | Q 323 | 2SC2412K/RS/-X | CHIP TR.C.M | | |
| | R 102 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 103 | NRSA02J-183NY | MG RESISTOR | 18K 5% 1/10W | |
| | R 105 | NRSA02J-220NY | MG RESISTOR | 22 5% 1/10W | |
| | R 106 | NRSA02J-392NY | MG RESISTOR | 3.9K 5% 1/10W | |
| | R 107 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |
| | R 108 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 109 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 110 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 111 | NRSA02J-562NY | MG RESISTOR | 5.6K 5% 1/10W | |
| | R 112 | NRSA02J-122NY | MG RESISTOR | 1.2K 5% 1/10W | |
| | R 113 | NRSA02J-271NY | MG RESISTOR | 270 5% 1/10W | |
| | R 114 | NRSA02J-391NY | MG RESISTOR | 390 5% 1/10W | |
| | R 115 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 116 | NRSA02J-182NY | MG RESISTOR | 1.8K 5% 1/10W | |
| | R 117 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 118 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 119 | NRSA02J-203NY | MG RESISTOR | 20K 5% 1/10W | |
| | R 120 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 121 | NRSA02J-122NY | MG RESISTOR | 1.2K 5% 1/10W | |
| | R 202 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 203 | NRSA02J-183NY | MG RESISTOR | 18K 5% 1/10W | |
| | R 205 | NRSA02J-220NY | MG RESISTOR | 22 5% 1/10W | |
| | R 206 | NRSA02J-392NY | MG RESISTOR | 3.9K 5% 1/10W | |
| | R 207 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |
| | R 208 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 209 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 210 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 211 | NRSA02J-562NY | MG RESISTOR | 5.6K 5% 1/10W | |
| | R 212 | NRSA02J-122NY | MG RESISTOR | 1.2K 5% 1/10W | |
| | R 213 | NRSA02J-271NY | MG RESISTOR | 270 5% 1/10W | |
| | R 214 | NRSA02J-391NY | MG RESISTOR | 390 5% 1/10W | |
| | R 215 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 216 | NRSA02J-182NY | MG RESISTOR | 1.8K 5% 1/10W | |
| | R 217 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 218 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 219 | NRSA02J-203NY | MG RESISTOR | 20K 5% 1/10W | |
| | R 220 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 221 | NRSA02J-122NY | MG RESISTOR | 1.2K 5% 1/10W | |
| | R 301 | NRS181J-221NY | MG RESISTOR | 220 5% 1/8W | |
| | R 302 | NRS181J-101NY | MG RESISTOR | 100 5% 1/8W | |
| | R 304 | NRSA02J-393NY | MG RESISTOR | 39K 5% 1/10W | |
| | R 305 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 306 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |

BLOCK NO. 06

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 307 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 308 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 309 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 310 | NRS181J-820NY | MG RESISTOR | 82 5% 1/8W | |
| | R 311 | NRS181J-820NY | MG RESISTOR | 82 5% 1/8W | |
| | R 313 | NRSA02J-3R3NYM | RES. C.M | 3.3 5% 1/10W | |
| | R 314 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 315 | NRSA02J-100NY | MG RESISTOR | 10 5% 1/10W | |
| | R 316 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 317 | NRSA02J-100NY | MG RESISTOR | 10 5% 1/10W | |
| | R 318 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |
| | R 319 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 321 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |
| | R 322 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 327 | NRSA02J-474NY | MG RESISTOR | 470K 5% 1/10W | |
| | R 328 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 329 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 330 | NRSA02J-ORONY | BUS WIRE I/M | 5% 1/10W | |
| | R 335 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 336 | NRSA02J-392NY | MG RESISTOR | 3.9K 5% 1/10W | |
| | R 338 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 339 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 341 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 343 | NRSA02J-ORONY | BUS WIRE I/M | 5% 1/10W | |
| | R 345 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 346 | NRSA02J-ORONY | BUS WIRE I/M | 5% 1/10W | |
| | R 347 | NRSA02J-392NY | MG RESISTOR | 3.9K 5% 1/10W | |
| | R 348 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 350 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 351 | NRSA02J-151NY | MG RESISTOR | 150 5% 1/10W | |
| | R 353 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 354 | NRSA02J-151NY | MG RESISTOR | 150 5% 1/10W | |
| | R 355 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 356 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 357 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 358 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |
| | R 359 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |
| | R 360 | NRSA02J-433NYT | RES. C.M ** | 43K 5% 1/10W | |
| | R 361 | NRSA02J-183NY | MG RESISTOR | 18K 5% 1/10W | |
| | R 362 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |
| | R 363 | NRSA02J-183NY | MG RESISTOR | 18K 5% 1/10W | |
| | R 364 | NRSA02J-433NYT | RES. C.M ** | 43K 5% 1/10W | |
| | R 365 | NRSA02J-203NY | MG RESISTOR | 20K 5% 1/10W | |
| | R 366 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |
| | R 367 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 368 | NRSA02J-391NY | MG RESISTOR | 390 5% 1/10W | |
| | R 369 | NRSA02J-391NY | MG RESISTOR | 390 5% 1/10W | |
| | R 371 | NRS181J-222NY | MG RESISTOR | 2.2K 5% 1/8W | |
| | R 374 | NRSA02J-912NY | RES. C.M | 9.1K 5% 1/10W | |
| | R 375 | NRSA02J-683NY | MG RESISTOR | 68K 5% 1/10W | |
| | R 376 | NRS181J-6R8NY | MG RESISTOR | 6.8 5% 1/8W | |
| | VR101 | QVPA603-503A | SEMI V RESISTOR | | |
| | VR201 | QVPA603-503A | SEMI V RESISTOR | | |
| | VR301 | QVPA603-103M | SEMI V RESISTOR | | |

## ■ Reel Pulse Board

BLOCK NO. 07

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | CN 1 | EMV7159-010 | 10P PLUG ASSY | | |
| | D 1 | 1SR139-100 | SI DIODE | | |
| | IC 1 | SG-105F3-BB,C | PHOTO SENSER | | |
| | P 1 | VMZ0015-002 | POST PIN | | |
| | SW 2 | MXS00220MVL0 | CASSETTE SWITCH | TAPE | |
| | SW 4 | MXS00220MVL0 | CASSETTE SWITCH | 70U | |
| | SW 6 | QSW0507-001 | SWITCH | | |

BLOCK NO. 08□□□□□

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | CN 1 | EMV7159-010 | 10P PLUG ASSY | | |
| | D 1 | 1SR139-100 | SI DIODE | | |
| | IC 1 | SG-105F3-BB.C | PHOTO SENSER | | |
| | P 1 | VMZ0015-002 | POST PIN | | |
| | SW 1 | MXS00220MVLO | CASSETTE SWITCH | R.REC | |
| | SW 2 | MXS00220MVLO | CASSETTE SWITCH | TAPE | |
| | SW 4 | MXS00220MVLO | CASSETTE SWITCH | 70U | |
| | SW 5 | MXS00220MVLO | CASSETTE SWITCH | F.REC | |
| | SW 6 | QSW0507-001 | SWITCH | | |

## ■Accesories and Packing Materials and Parts List

BLOCK NO. M5MM□□□

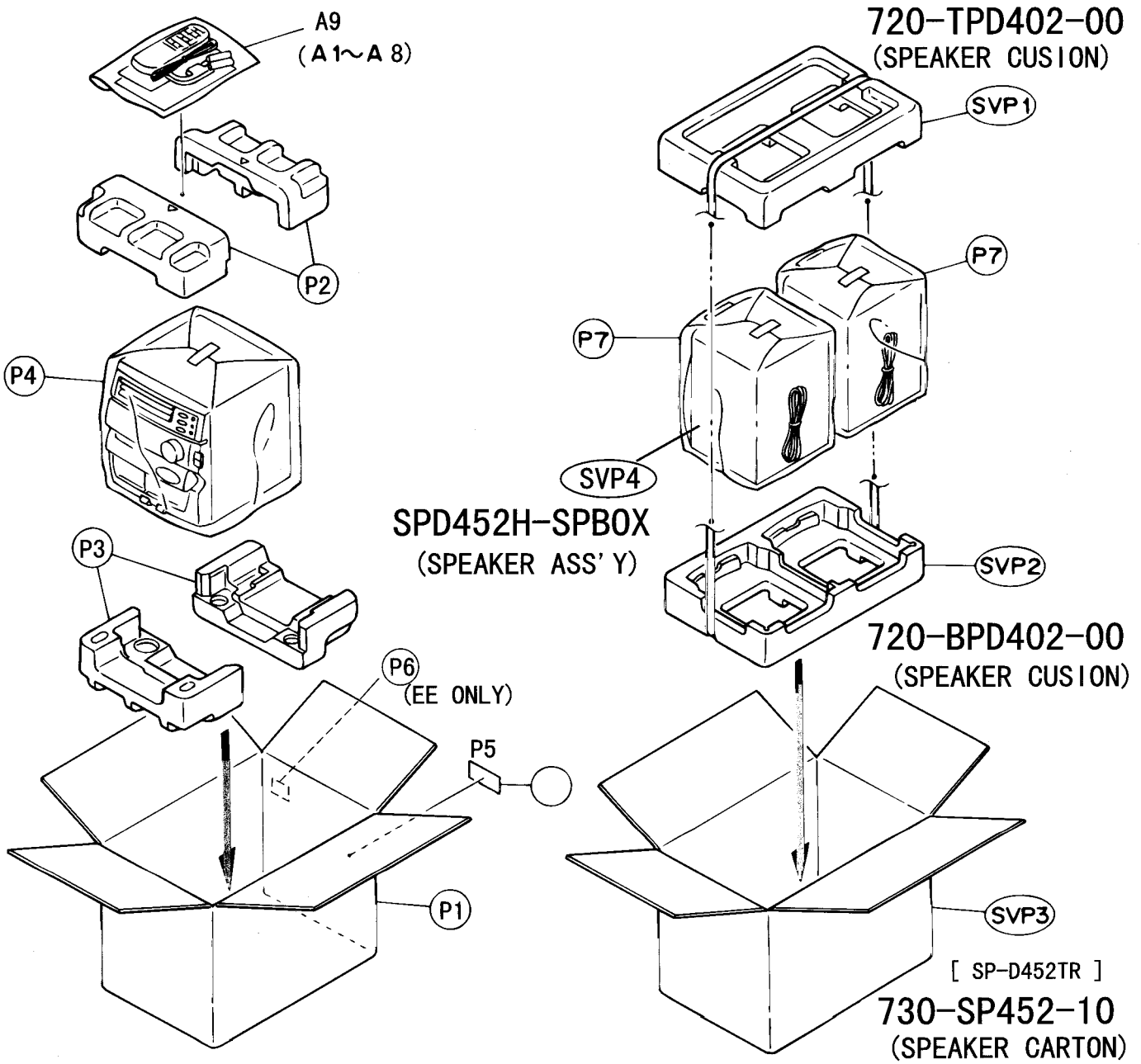
| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | P 1 | GV20011-003A | CARTON ASSY | | 1 | | |
| | P 2 | GV10007-001A | CUSHION UPPER | | 1 | | |
| | P 3 | GV10008-001A | CUSHION BOTTOM | | 1 | | |
| | P 4 | QPC06506515P | POLY BAG | | 1 | | |
| | P 5 | ---------- | COMPUTER LABEL | | 1 | | |
| | P 6 | E409393-004 | GOST LABEL | | 1 | EE | |
| | P 7 | 138736001051 | POLY BAG | | 2 | | |

BLOCK NO. M6MM□□□

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | A 1 | QAL0014-001 | AM LOOP ANT | | 1 | | |
| | A 2 | GVT0003-008A | INST.BOOK | | 1 | B | |
| | | GVT0003-006A | INST.BOOK | | 1 | E | |
| | | GVT0003-009A | INST.BOOK | | 1 | EE | |
| | | GVT0003-007A | INST.BOOK | | 1 | EN | |
| | A 3 | EWP503-001 | ANT.WIRE | | 1 | | |
| | A 4 | RM-SED452TRUKP | REMOCON | | 1 | | |
| | A 5 | R6SPTT/2STS | BATTERY | | 2 | | |
| | | R6SPTT/2STS | BATTERY | | 2 | | |
| | | BT-54008-1 | W.CARD | | 1 | | |
| | A 6 | BT-54008-1 | W.CARD | EE EXCEPT | 1 | | |
| | A 7 | E43486-340A | SAFETY I.SHEET | | 1 | B | |
| | A 9 | E309758-002 | POLY BAG | | 1 | | |

# Accessories and Packing Materials and Parts List

Block No. M5MM & M6MM




[ SP-D452TR ]

730-SP452-10
(SPEAKER CARTON)

[ SP-D432TR ]

730-SP432-10
(SPEAKER CARTON)

# CA-D432TR
# CA-D452TR

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No.20688

Printed in Japan
9805(V)